

## Alliance for the Arts

**Project Name:** Alliance for the Arts' Arts Rebuild New York Campaign  
**Funding Request:** \$1,000,000  
**Address:** 330 West 42<sup>nd</sup> Street, Suite 1701 New York, NY 10036

### Project's Description

The NYC ARTS Web sites are the most complete, easy to use and dynamic source of information. Our current goal is to expand these sites to include video and audio, user-generated content and a portfolio of Web 2.0 applications to expand the field's communications and marketing capacity to help groups achieve visibility in a fragmented and competitive online space.

In response to the financial crisis, the Alliance is fielding rapid-response surveys to the cultural field such as the recent Recession and the Arts survey, which found that that roughly 80 percent of cultural groups are responding to the crisis by cutting their budgets, firing staff, or other means. We also plan to produce the first annual State of the Arts Report and regular studies on topics such as marketing and human resources that have never before been possible.

### Project's Benefits

The arts are not just another needy sector, but an engine of recovery. The Alliance for the Arts is at the center of this recovery—researching the health and economic impact of the arts in New York and promoting cultural tourism and economic development. The Alliance's research is the basis for its promotion of the cultural field—generating and retaining jobs, wages and taxes.

*The Arts as an Industry*, our 2007 report on the economic impact of the arts in New York, estimates the value to the city at \$21.2 billion and more than 160,000 jobs.

The foundation for the Alliance's current crisis-oriented agenda is its newly-launched, "green" information system, NYC ARTS, built in partnership with the City and State of New York. NYC ARTS includes two promotional Web sites—NYC-ARTS.org and NYKidsARTS.org—as well as a comprehensive system for analyzing data on the cultural field called the Arts Research Center. NYC ARTS is entirely replicable and will serve as a national model. It reaches a national audience directly, broadening access for underserved communities and encouraging visitation.

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## Arts & Cultural Council for Greater Rochester

**Project Name:** Cultural Industry Support Center  
**Funding Request:** \$250,000  
**Address:** 277 North Goodman Street Rochester, NY 14607

## **Project's Description**

The Arts & Cultural Council proposes to create a Cultural Industry Support Center that will be a “one stop shop” for shared services: printing and copying, website design, computer access, shared database capabilities and ticketing systems, and more.

## **Project's Benefits**

According to a 2007 economic impact study conducted by the Arts & Cultural Council for Greater Rochester, in partnership with Americans for the Arts, nonprofit cultural organizations in Monroe County generate roughly \$200 million in economic impact annually. In addition, these organizations provide over 6,000 jobs to our area. The current economic climate presents significant challenges for these organizations in the arts, culture, and education industries. Nonprofits are struggling to maintain operations and sustain jobs, significantly impacting their ability to continue fueling the economy. Though corporate dollars are disappearing and private contributions dwindling, the need is greater than ever to support this critical economic engine.

By providing additional mechanisms to retool business practices to operate more efficiently, organizations will be able to stay afloat and better fulfill their missions of building vibrant communities, thus ensuring job retention and continued economic impact. The Cultural Industry Support Center is a critical collaborative endeavor that will increase organizational efficiency, preserve existing jobs, create new employment opportunities, and yield economies of scale for numerous nonprofit organizations in the Rochester region.

The Arts & Cultural Council will measure cost savings to participating organizations, as well as the number of jobs retained and created through this initiative.

## **Project's Location**

The project will be implemented in Congresswoman Slaughter's District. The exact location of the Cultural Industry Support Center will be in the Arts & Cultural Council for Greater Rochester's offices at 277 North Goodman Street, Rochester, NY 14607.

## **Organization's Mission**

The Arts & Cultural Council for Greater Rochester is the umbrella nonprofit organization that serves and supports arts, culture and education in the 10-county greater Rochester, NY, region. Our mission is to strengthen and promote the region's creative sector through grant programs, constituent services, and special initiatives. We act as an advocate, planner, convener, and funder, supporting artistic vitality and cultural diversity throughout the region.

We offer a number of services including access to medical insurance and long-term care plans at group rates, access to pro bono legal assistance, and publicity for events on our online calendar and in our electronic newsletter, which reaches over 4,000 people. Our gallery has featured rotating exhibits by Rochester region artists since its opening in September 2004 and is currently booked into 2010. We publish a quarterly magazine, *Metropolitan*, which promotes the

Rochester region and its cultural offerings to residents and visitors, with a distribution of 15,000 and an estimated readership of 60,000.

We provide critical funding for over 100 organizations and artists each year. Hundreds more take advantage of our workshops and technical assistance on a wide range of topics including legal issues (such as incorporation and copyright issues), fundraising and planned giving, website development, media relations and marketing.

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### **Arts Council in Buffalo & Erie County**

**Project Name:** Cultural Arts & Peaceable Kingdom  
**Funding Request:** \$1,896,500  
**Address:** 700 Main Street Buffalo, NY 14202

#### **Project's Description**

Cultural Arts and The Peaceable Kingdom is a technical assistance initiative and five-county collaboration to assist cultural organizations in Erie, Niagara, Chautauqua, Allegany/Cattaraugus counties implement programs that will enable the WNY cultural arts community's full participation in NY State's economic growth using the arts as one of the key elements fueling that progress. The project focus is on incorporating the voices of WNY's growing, multi-ethnic and minority communities and their cultural heritage. This request may seem large for a regional project, but the cost is only \$1.35 per person as the combined population for the participating counties is 1.4 million people.

The project will encourage multi-ethnic, minority, and mainstream communities to come together and share their cultural traditions in safe environments supported by professional artists, discuss and identify opportunities to develop cottage industries using the arts, launch small businesses as artist entrepreneurs; or create educational opportunities that will improve literacy, and have positive affects on neighborhoods, especially school age children (using playwriting, poetry, song writing, etc.); achieve better assimilation into the work environment and our localities with fewer fears and better understanding of our culture.

Provide forums for discovery designed to establish relationships grounded in respect and appreciation that will lead to a shared loyalty and commitment to contribute to a quality of life in WNY that is characterized by harmony, productivity, and a collective reverence for the privilege of living in America; and for mainstream Americans to cultivate relationships with ethnic communities that are grounded in respect and appreciation that will lead to their commitment to sustain and support America's legacy as a nation with a passion for equality, and promote the constitution's guarantee that every person has the right to "life, liberty and the pursuit of happiness."

## **Project's Benefits**

As the demographics of our communities change, new people will be eligible to participate in the workforce. As the economy expands a new type of worker will be required and in order for the workforce to be effective, it will be imperative to communicate from a perspective that is knowledgeable and respectful of the cultural differences we will all encounter.

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## **Artspace Projects**

**Project Name:** Buffalo Artspace #2  
**Funding Request:** \$500,000  
**Address:** 250 Third Avenue North, Suite 500, Minneapolis, MN 55401

## **Project's Description**

Because of the support we received from Congresswoman Slaughter for our first project in Buffalo, we were able to build a project that created 60 affordable live/work units built that support only a handful of Congresswoman Slaughter's 'creative' constituents. From our initial survey and the data from the lease-up for the first project, we know that another project can be supported; there is a waiting list of qualified residents for the 60 units numbering over 400.

With the help from this earmark we can return to Buffalo and begin the process of developing a second project (exact title: Buffalo Artspace #2) in the 28<sup>th</sup> Congressional District at Buffalo.

## **Project's Benefits**

This project utilizes federal, state and local housing and economic development programs to leverage private dollars that create projects to enhance livability in cities and neighborhoods.

Specifically, this second project in Buffalo will create affordable housing for people in an already economically depressed area who are faced with housing challenges, while helping to reshape and stabilize a neighborhood with much potential for a successful and positive outcome.

## **Project's Location**

Within the neighborhood of the first Buffalo Artspace Project along Main Street or an adjoining block, near the first Buffalo project.

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## **Buffalo City Mission**

**Project Name:** Cornerstone Manor Program Expansion  
**Funding Request:** \$1,300,000  
**Address:** 100 East Tupper Street, Buffalo, NY 14203

### **Project's Description**

To jumpstart the renovation and expansion of Buffalo City Mission's Men Shelter which serves homeless men seeking emergency shelter, transitional housing, and rehabilitative services, including long term substance abuse counseling, education, job and life skills training, and healthcare.

Buffalo has the second highest poverty rate among our nation's cities. Currently, one in four persons in Buffalo lives in poverty. Approximately 2,100 individuals access some form of homeless service on any given night in Erie County. The demand for meals at BCM has risen 48 percent in the last year. The Men's Shelter currently houses approximately 200 men a night. The number of individuals seeking shelter and services at BCM has increased 18% over the last year and continues to increase dramatically. In order to meet the growing demand for shelter and services in the community, and to conform to New York State requirements, an expanded Men's Center facility has become necessary. Renovations will allow BCM to expand available bed space by 38 percent.

### **Project's Benefits**

According to the U.S. Census, Buffalo, N.Y., now has the sixth highest poverty rate among U.S. cities. One in four people living in Buffalo currently live in poverty. Buffalo City Mission's Men's Center is serving and transforming the lives of these individuals which relieve a significant burden from the local and state governments. The Men's Center expansion is a high impact project of strategic importance to the city of Buffalo and the entire community.

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## **Buffalo City Mission**

**Project Name:** Buffalo City Men's Center Expansion  
**Funding Request:** \$1,100,000  
**Address:** 100 East Tupper Street, Buffalo, NY 14203

### **Project's Description**

To jumpstart the renovation and expansion of Buffalo City Mission's Men Shelter which serves homeless men seeking emergency shelter, transitional housing, and rehabilitative services, including long term substance abuse counseling, education, job and life skills training, and healthcare.

Buffalo has the second highest poverty rate among our nation's cities. Currently, one in four persons in Buffalo lives in poverty. Approximately 2,100 individuals access some form of homeless service on any given night in Erie County. The demand for meals at BCM has risen 48 percent in the last year. The Men's Shelter currently houses approximately 200 men a night. The number of individuals seeking shelter and services at BCM has increased 18% over the last year and continues to increase dramatically. In order to meet the growing demand for shelter and services in the community, and to conform to New York State requirements, an expanded Men's Center facility has become necessary. Renovations will allow BCM to expand available bed space by 38 percent.

### **Project's Benefits**

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## **Buffalo Harbor Global Warming Astronomy & Planetarium Centers**

**Project Name:** Science Centers Construction  
**Funding Request:** \$1,000,000  
**Address:** 180 Crandon Blvd, Cheektowaga, New York 14225

### **Project's Description**

Our world-class Buffalo Harbor Global Warming, Astronomy and Planetarium Centers will be an once-in-a-lifetime opportunity to revitalize the Buffalo waterfront by building a signature structure of community value. It is our vision to create well-paying jobs, stimulate economic vitality for the region, and enhance Buffalo's national and international standing by contributing to worldwide research and debates on global warming & climate change and astronomy.

We anticipate our Global Warming, Astronomy and Planetarium Centers will create 600 private sector jobs and bring millions of tourists to the region. The Centers will support spin-off development of hotels, restaurants and stores, while small businesses will see a rise in activity and revenue. The Centers will enhance Buffalo's image as a leader in scientific research and this LEED certified project will showcase Buffalo and New York State's commitment to using clean energy.

A quarter million public and non-public Western New York school children will benefit through field trips, outreach and educational programs. Professionals will have opportunities for research and teacher development. There will also be the prospect to partner with local colleges and universities. Our facility will host national and international conferences and symposiums with world-renowned scientists.

This 21<sup>st</sup> century project is critical for the resurgence of the Buffalo-Niagara region. We are incorporated, have our 501(c)(3) non-profit status and are positioned to move forward. With your help, we can invest our tax dollars to support a project that will allow the Buffalo Outer Harbor to become vibrant once again.

### **Project's Benefits**

For Western New York, these science centers will benefit a quarter million students; increase the number of private sector jobs; and increase the number of national and international visitors to our region.

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### **Buffalo Hearing and Speech Center**

**Project Name:** Classroom Construction  
**Funding Request:** \$200,000  
**Address:** 50 E. North Street Buffalo, NY 14203

### **Project's Description**

In response to the significant community need, BHSC created the Language to Literacy Program to address the root causes of literacy problems through a focus on underlying auditory and language deficits. The program has achieved much success since its inception in the summer of 2004. With growth always comes logistical concerns and BHSC has been extremely cognizant of setting up systematic support systems in terms of logistical protocols, training, and staffing to ensure organized operation of the program as the number of students attending increases. Even with plenty of staff and organized procedures, the program has simply outgrown the physical space available at Buffalo Hearing and Speech Center.

The Language to Literacy classrooms, its staff, supplies, and students and families are frequently on the move in the building, finding homes in temporarily vacated spaces. Given the expansion in other programs, even borrowed spaces are quickly disappearing. In addition, there is no possibility of expanding the program any further given this lack of space, although there is a large demand in the community for literacy intervention.

There is a large amount of space available in BHSC's lower level that currently serves as storage. This space will be built out to accommodate three Language to Literacy classrooms, parent waiting room, storage, and staff workspace to accommodate supplies and preparation.

### **Project's Benefits**

In 2004, Buffalo Hearing & Speech Center initiated its Language to Literacy summer program in response to the growing need for specialized services for children with difficulties in reading. According to the 2000 National Assessment of Educational Programs report, 37% of 4<sup>th</sup> graders

were reading below the basic level, 24% were considered proficient and only 8% were reading at an advanced level. Locally, the most recent New York State Department of Education School Report Card indicates that 66% of 4<sup>th</sup> grade students enrolled in the Buffalo City School District do not meet New York State standards in reading, as compared to an average of 38% in New York State Public Schools. In response to this significant community need, BHSC created the Language to Literacy Program to address the root causes of literacy problems through a focus on underlying auditory and language deficits.

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### **Buffalo Niagara Medical Campus**

**Project Name:** Health Center Streetscape & Infrastructure Improvements  
**Funding Request:** \$1,950,000  
**Address:** 701 Ellicott Street, Buffalo, NY 14203

#### **Project's Description**

The BNMC Streetscape & Infrastructure Improvements for Development of an Academic Health Center involves implementation of recommendations from the BNMC Master Plan specifically related to streetscape and infrastructure development. The goal is to ensure multi-modal access, develop a pedestrian oriented and campus-like environment, and cultivate a sense of place. Critical infrastructure improvements for the BNMC will create construction jobs on the campus in the short-term and will significantly aid our region's major clinical care, research, and medical education institutions in the recruitment and retention of world-class companies, patients, scientists, nurses, physicians, and other employees in the longer-term.

#### **Project's Benefits**

It reinforces and protects the federal, state, local, private, and philanthropic investments made to date at the BNMC – both in its infrastructure as well as in support of the research and economic development activities of the eight member institutions. The most recent development – with which you are very familiar – is the Buffalo Life Sciences Complex, which is a three-building collaborative effort of the University at Buffalo, Roswell Park Cancer Institute, and the Hauptman-Woodward Medical Research Institute.

Here in Buffalo Niagara, the community, local government, state government, as well as local businesses and institutions have – and continue to – contribute to the BNMC. Full funding of the federal streetscape component is critical to our continued success and collaborative efforts across business sectors, government agencies, and community leaders.

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## **Buffalo Olmsted Parks Conservancy**

**Project Name:** Renovation of Inner City Youth Recreation Facility  
**Funding Request:** \$2,500,000  
**Address:** 84 Parkside Ave Buffalo, NY 14214

### **Project's Description**

The project consists of resurrecting one of the largest man-made water features (the basin) in an urban historic park for year-round use, and renovating an adjacent historic community activity center for at risk youth sports and recreation activities. The Humboldt Basin is located in the heart of a deteriorated low and moderate income neighborhood on the city's eastside. It is also the focal point of Martin Luther King, Jr. Park. The severely deteriorated basin is 5 acres in size and will be utilized as an active recreation facility in the warmer months and an ice skating facility in winter. The adjoining recreational facility is heavily utilized for recreational programming for at risk, disadvantaged, minority, and underserved youth. Thousands of young people participate in recreational clinics in the venue annually. The project scope includes addressing ADA issues, restrooms, energy efficiency, and overall maintenance and repair needs for safety and stability.

### **Project's Benefits**

The restoration of this major historic water feature will serve as the keystone to restoration of the entire Martin Luther King, Jr. Park in the Buffalo Olmsted Park System. The semi-abandoned state of the water basin is currently a major eyesore for this struggling community. The creation of a major recreational, historic and visual asset for this community will provide a foundation for the restoration and revitalization of the adjacent neighborhood housing stock and commercial properties.

This specific federal funding will match the local city and foundation funds, allowing for the completion of this vital redevelopment, revitalization project. The Youth Center-Basin Project would be one of the largest economic public development projects to be implemented in the one of the most economically depressed sections of Buffalo in decades.

The project will correct and renovate a substandard structure to adequately serve the educational and recreational needs of a largely minority youth population to keep them healthy, safe, active, and on the path to becoming law abiding and productive members of our society. The project will also save a nationally significant and designated treasure that has long been abandoned and neglected

This project will abate a large and severe health and safety hazard that is currently an attractor for crime and pollution/litter. Placing the basin back into functional use will provide a safe and properly functioning water feature primarily for the use of an underserved population.

Lastly, the renovation of the basin and recreational center is a substantial and long awaited component that will serve as a major catalyst for the ongoing revitalization of the surrounding residential and commercial neighborhood.

The deteriorated state of the basin and youth center only adds to the decline and hinders the collaborative efforts of organizations to reinvest in the surrounding neighborhood's vacant structures. This project will aide in turning that tide by advancing the cause of revitalizing this neighborhood back to active use. Doing so creates jobs for construction, maintenance, the development of trade skills, and operation of this facility and the surrounding park area. The impact and investment will be returned in the form of reduced crime, enhanced property values, and reduced health care costs on our community and society.

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### **Buffalo State College**

**Project Name:** Western New York Teacher Pipeline Project  
**Funding Request:** \$200,000  
**Address:** Cleveland Hall 511, 1300 Elmwood Ave, Buffalo, NY 14222-1095

#### **Project's Description**

The Western New York Teacher Pipeline Project will be a project of the Center for Excellence in Urban and Rural Education (CEURE) at Buffalo State College. CEURE's is dedicated to the enhancement of high-need urban schools through the recruitment, education, and retention of qualified and effective educators. Its goal is to support educational reform and improvement, the Center partners with schools, communities, institutions of higher learning and other constituencies.

It has been estimated that more than 700,000 new teachers will be needed in high-poverty urban districts in the next 10 years (NCES 1998). In addition, nearly 50 percent of all new teachers in urban districts leave the profession during their first five years of teaching (NCREL 2002). With fewer teachers entering the field than leaving, this gap will continue to widen. Further, while America's schools are becoming more diverse, its teaching workforce is moving in the opposite direction. Without intervention, the percentage of minority teachers is expected to shrink to an all-time low of 5 percent by 2008 (NCES 1998).

The mentoring and support programs implemented through the WNY Teacher Pipeline Project will reverse these trends, improve outcomes for new teachers in urban schools, provide schools with a continuous supply of well-trained multicultural teachers, and will provide a national model that can be replicated in school districts across the country.

The WNY Teacher Pipeline Project will be a specialized program that will address these critical issues by focusing on recruitment, urban teacher preparation, community-based clinical experiences, faculty development and research. The Project, through the Urban Teacher's Academy, will provide educational courses and opportunities for students who are committed to

working in high needs urban areas. Students will be provided with a unique program that will include mentors as well as community service experiences which will give them the necessary training to teach in such urban settings.

### **Project's Benefits**

It is expected that upon completion of the WNY Teacher Pipeline Project students will have successfully achieved the following: Graduates of the WNY Teacher Pipeline Project will be placed in teaching positions in the Buffalo and other urban school districts. WNY Teacher Pipeline Project teachers will remain in that district for at least three years. WNY Teacher Pipeline Project teachers will display evidence of high student achievement. Graduates of WNY Teacher Pipeline Project will share their success about their urban placements with current students in the academy.

Participants will receive:

- 1) Culturally relevant education courses that focus on diversity and/or urban education
- 2) Seminars with experts in urban education
- 3) Field experiences and community service
- 4) On-going support with faculty and mentors
- 5) Cohort support
- 6) Encourages and rewards ongoing mentorship/coaching during the first three years of teaching in an urban setting
- 7) Priority given for paid internships and scholarships

American schools have been struggling with meeting the needs of students in urban settings who many times have been labeled as “at risk” and failing to achieve to their highest potential. With the new legislation of No Child Left Behind schools are working fervently in addressing the needs of these students.

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### **Buffalo Transportation Museum**

**Project Name:** Pierce Arrow Museum Expansion  
**Funding Request:** \$8,000,000  
**Address:** 24 Myrtle Avenue, Buffalo, NY 14204

### **Project's Description**

The project is a 60,000 sq. ft. expansion of museum building and building of the Frank Lloyd Wright Filling Station. Capital construction, land acquisition, soft costs, salaries and educational displays.

Funds are requested to complete a 60,000 square foot expansion of the Buffalo Transportation/Pierce-Arrow Museum and the building of the Frank Lloyd Wright Filling Station. The new addition will house the world class collection of Buffalo transportation automobiles, cycles, motorcycles, carriages, trucks, and memorabilia currently in storage. Since

the Museum opened in May of 2001 (established in 1997), only a portion of the collection has been displayed. The Museum is a New York State Department of Education chartered entity, which collaborates with historical societies, automobile museums in the US and around the world, public libraries, etc. We believe the addition of the Wright Filling Station and museum expansion will dramatically increase our annual attendance.

Part of the Museum's expansion efforts includes building a Frank Lloyd Wright designed standardized gas station which was designed for Buffalo in 1927 and was to be built on Michigan and Cherry (not far from the current Museum). It was never built. Rights to the designs were secured from Taliesin Architects, legal administrators of the Frank Lloyd Wright cultural legacy. The unique station with its dramatic copper roof and 45 foot totems will now be constructed indoors within the expanded museum. It will be protected from weather. Visitors will be able to enjoy the site year round.

### **Project's Benefits**

This project will be the first major tourism development east of Michigan Avenue in downtown Buffalo and will play an important role in the new historic Michigan Avenue corridor to highlight the Underground Railroad development, Colored Musicians Club, etc.

The Museum is an economic driver. We strive to make an impact on international tourism and jobs in Western New York. The Museum has shown resourcefulness creating income through admissions, catered events and meetings. We have worked with area schools and universities.

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### **Buffalo Transportation Museum**

**Project Name:** Buffalo Niagara Cycle and Visitor Preview Center  
**Funding Request:** \$3,750,000  
**Address:** 24 Myrtle Avenue, Buffalo, NY 14204

### **Project's Description**

Adapt 1900 era 45,000 sq. ft. brick building as a visitor information & preview center. Capital improvements, construction, land acquisition, soft costs, library resource and educational displays. Capital improvements will include land acquisition; a new exterior, elevator and entryway; facade restoration and enhancement; new natural light delivery system for the building's west side; fire code and handicap accessibility compliance; bicycle racks; electric automobile and Segway parking; and vehicle charging station.

The rehabilitated building will provide a visitor's information center, preview center, library resource location, Buffalo & WNY hall of fame for transportation with a display of Buffalo related bicycles, carriages, motorcycles and early automobile displays; and a meeting place for related groups such as visitor and convention bureaus.

## **Project's Benefits**

Rehabilitate and place into productive reuse a circa 1890 livery distribution facility with 45,000 square feet of useable space. The building at 145 Swan Street, to be known as 160 Seneca Street, is accessible and visible from Seneca, Michigan, Swan, and Elm Streets. It is situated at the intersection of Michigan Avenue and historic State Route 16, commonly known as Seneca Street and is easily accessible via the NYS Thruway I-190, the Amtrak line, NFTA bus routes, Michigan Avenue (a main arterial in downtown Buffalo), Seneca Street, Elm Street, and the Federal Seaway Trail and Scenic Byway. According to the 2005 traffic counts of the Greater Buffalo Niagara Transportation Council, over 140,000 passenger vehicles pass the site daily. The building's location is easily accessible to Canadian visitors. The Peace Bridge is less than 10 minutes away.

We are working with a group that has proposed a Toronto based cycle train, which would come to Buffalo's Exchange Street Station. Cyclists from Southern Ontario would be able to enjoy Buffalo sites and cycle back to Niagara Falls along the Niagara River and pick up their train to Toronto. We are reviewing proposals by the U.S. Bicycling Hall of Fame to relocate their bicycle collection from New Jersey to Buffalo.

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## **Canisius College**

**Project Name:** Science Hall Renovation  
**Funding Request:** \$300,000  
**Address:** 2001 Main Street, Buffalo, NY 14208

## **Project's Description**

Funds will be used to renovate and equip a state-of-the-art interdisciplinary Science Hall for Canisius College. The new science center will enable the college to build on the strength of its successful undergraduate science programs. The Center will create a new model for how science is taught and pursued at Canisius. The recipient of the grant would be Canisius College.

## **Project's Benefits**

Over the past fifteen years, Canisius has invested more than \$140 million in 24 major capital projects on its campus. These investments have strengthened our immediate neighborhood, the historic Hamlin Park District in the center of the city of Buffalo. All but about \$900,000 for these projects came from Canisius College's own resources, fundraising and bond issues.

The next step in the college's master plan is to renovate the recently acquired former BlueCross BlueShield building and parking pavilion (BCBS) for development into a comprehensive

interdisciplinary science center. The building is a four story, 237,000 square foot building (170,000 net usable square feet) with a 1,350 car parking pavilion.

The proposed interdisciplinary science center will enable Canisius to build upon one of the college's greatest academic strengths. The college is recognized as one of the top undergraduate colleges and universities in the United States for its undergraduate science program. National foundations have rated the Canisius science program as one that has an impact at the national level. The college is one of the top comprehensive universities in terms of the number of graduates who have obtained PhD's in the sciences over the past 75 years. Over the past ten years, Canisius has seen the acceptance rate for professional schools – medicine, dentistry and veterinary medicine – rise to more than 90% of those students applying.

The new science center will allow us to consolidate all of our science programs in one building. It will become the hub of new interdisciplinary programs in fields such as bioinformatics, cellular molecular biology, analytical chemistry, quantitative science and neuroscience, keeping Canisius at the forefront of undergraduate science education.

To capitalize on the tremendous community investment in the life sciences at the Buffalo Niagara Medical Campus, the region will need scientists with an entrepreneurial mindset who can recognize the commercial potential of significant discoveries and develop new businesses to bring them to market. With its emphasis on a broad-based core curriculum founded in the liberal arts, Canisius produces science graduates who possess the necessary skills to be the entrepreneurial scientists this new economy demands. Canisius will also produce candidates for the best doctoral programs and entry level researchers and technicians.

Canisius closed on the purchase of BCBS in November 2008. The total expected cost of this project, including acquisition, is \$46.8 million, making it one of the most important economic development projects planned in the city. As with all of the college's construction projects over the past fifteen years, the science center project will generate substantial construction activity and economic impact for Buffalo Niagara. The project will be developed in an area bounded by two historic preservation districts (Hamlin Park and Parkside), an historic Olmsted park (Delaware Park) and an historic cemetery (Forest Lawn). The acquisition of the parking pavilion, with its 1,350 spaces, will also have a significant impact on transportation in the central city.

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### **Center for Environmental Information**

**Project Name:** Lake Ontario Coastal Initiative  
**Funding Request:** \$1,000,000  
**Address:** 55 St. Paul Street, Rochester, NY 14604

### **Project's Description**

The mission of the Lake Ontario Coastal Initiative (LOCI), encompassing all the New York State North Coast stakeholders from the Niagara River to the St. Lawrence River, is to enlist and retain broad public commitment for the remediation, restoration, protection, conservation, and sustainable use of the coastal region. This mission will be accomplished by securing funds and resources to achieve scientific understanding, educate citizens, and implement locally supported priorities, programs and projects as identified through this Initiative. LOCI is a partnership among the Center for Environmental Information, SUNY College at Brockport, and the Finger Lakes- Lake Ontario Watershed Protection Alliance.

There are many well-intentioned programs, both public and private, that address some aspect of cleaning up the Lake Ontario shoreline. LOCI believes that New York State needs an over-arching program to harness the collective capability of these programs. We propose that this program focus on the four issues outlined below. This effort is critical to the economic and environmental revitalization of the Lake Ontario basin. The first phase of this multi-year program is estimated to cost \$2,500,000.

### **Project's Benefits**

Lake Ontario's coastal waters are a valuable resource for drinking water, recreational activities, fishing, and wastewater processing. Despite significant water quality improvements in the open, offshore waters of the lake, the 320 miles of shoreline, river and creek mouths and embayments suffer from severe impairments.

They include beach closings, problems with the taste and odor of drinking water, increased treatment costs for drinking water, habitat destruction, animal and fish deformities and erosion, and restrictions on dredging activities.

The project will result in improved water quality in the coastal region of the lake, benefiting its uses for drinking water, recreation, industry, waste treatment and tourism. Overall, LOCI will demonstrate and promote the clean-up of the Great Lakes through watershed protection in a manner consistent with the provisions of the Great Lakes Collaboration.

Measurable improvements and outcomes include increased and educated public concern, adoption of local policies and actions designed to improve and protect coastal water quality, and improved coastal water quality. Research and remediation projects in the Eighteenmile Creek and Oak Orchard Creek watershed, consistent with items in their *Basin Reports*, will also benefit Lake Ontario's coastal waters.

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### **Central Referral Service**

**Project Name:** 2-1-1 Western New York  
**Funding Request:** \$200,000  
**Address:** 45 Elm Street, Buffalo, N.Y. 14203

### **Project's Description**

To ensure that callers in need of health and human services in areas including: basic human needs, physical and mental health resources, work supports, elder care, youth and family services and volunteer opportunities are connected to the program that best matches their needs. Persons in need of critical, essential services are often unsure of where to turn or where to start. In some regions, like Western New York, finding help is as easy as dialing 2-1-1... just as people call 9-1-1 for emergencies.

The 2-1-1 project, which represents a partnership between local United Ways (UW) and Central Referral Service, Inc. (CRS) ensures more appropriate utilization of programs and extends the reach of our current information and referral network while reaching those who do not traditionally access services. 2-1-1 will provide valuable trend data for community planning and serve as an essential resource during times of emergency/disaster both natural and man-made.

The request of \$200,000 will assist with core staffing. It will, along with other grants and contracts, permit 2-1-1 to continue while viable new sources of funding are secured. The requested funding will insure the time and money put into creating the service will not be wasted. It will insure the tens of thousands of the region's citizens will receive the help they very possibly would not receive if we are not here. It simply makes the system more efficient and effective.

### **Project's Benefits**

The impact of 2-1-1 on the community may best be demonstrated by the following: comparing call activity from Jan. – Sept. in 2007 (before 2-1-1) with the same timeframe after the launch of 2-1-1, call volume increased by 140%. Similarly, comparing 2-1-1 from its first year to its second, the call volume from Sept. – Dec. for years 2007 vs. 2008 finds a 48% increase. The first statistic shows how significant an impact a simple phone number (2-1-1) can have on a community. The second statistic shows the growth of 2-1-1 from the first year to the second. Over 41,000 callers received help through 2-1-1 in the past year. We anticipate the number served to increase to 65,000 in the upcoming year. The projection may turn out low due to the financial difficulties facing the region, state and nation.

Persons who were “just making it” before will quickly find themselves in need of help. For these people, the system is very confusing and intimidating. The easy to remember phone number will help this group of people sort out their situation and inform them of what they are and are not eligible for and direct them to the service best able to offer assistance.

For persons familiar with the system, 2-1-1 is more valuable now than ever. Their needs are greater, therefore they need more help. Because of N.Y. State cutbacks many of the services this group sought assistance from in the past may no longer be available to them and we can direct them to alternative services.

Health and human service agencies themselves use 2-1-1 extensively. Cut backs will require many agencies to cut staff and to work smarter and more efficiently. 2-1-1 permits the provider to assist with the service they provide then refer the client to us for other needs.



During emergencies the public needs 2-1-1 as a place to call to receive help. The local emergency service departments are not equipped to handle thousands of calls 2-1-1 can, nor is it in a position to work with non-government providers to insure the health and safety of area residents.

It has been suggested for every correct referral we make we save the system 22 minutes of time. The savings greatly outweigh the cost of the service. This is the only service of its kind in the region.

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### **College at Brockport**

**Project Name:** Genesee River Watershed Remediation Study  
**Funding Request:** \$500,000  
**Address:** 350 New Campus Drive, Brockport, NY, 14420-2916

#### **Project's Description**

Every year the City of Rochester is forced to close beaches at Charlotte and Durand Eastman Parks on Lake Ontario due to poor water quality. Recreational activity alone suffers immensely and there have been many short- and long-term efforts to attempt to fix the water quality problem. To provide solutions to these problems, we must have knowledge of the origin, extent, and cause of the large amounts of soil and phosphorus that come from the Genesee River watershed.

Our project is ambitious covering an area exceeding 3,000 square miles. Phase I would emphasize the identification and prioritization of sources. Phase II would address subsequent remediation of point and non-point sources of soil and nutrient loss in this Area of Concern's largest forcing function, the Genesee River watershed. The blueprint for this proposed five-year project includes funding for the coordination of the project and funding for the identification of point and non-point sources of nutrients and soil loss from the Genesee River watershed that cause or have an effect on six of the BUIs in the Rochester Embayment. These include eutrophication and nuisance algae, degradation of fish habitat, degradation of benthos, beach closing, degradation of aesthetics, and degradation of phytoplankton and zooplankton populations. Each year of the project would include collection of scientific data, monitoring, and information gathering, as well as a remediation component, and finally the development of a phosphorus Total Maximum Daily Load (TMDL) for the Genesee River.

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## College at Brockport

**Project Name:** K-12 Lake Ontario Ecology  
**Funding Request:** \$500,000  
**Address:** 350 New Campus Drive, Brockport, NY, 14420-2916

### Project's Description

K-12 students will learn about the ecology of Lake Ontario using an innovative and engaging curriculum. Teachers will be trained by College staff to work with students on collecting and analyzing water samples, and then using the data to study how water quality and distribution species varies in different near-shore locations.

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## Community Health Care Services Foundation

**Project Name:** Expanding Home Telehealth for Patients with Diabetes  
**Funding Request:** \$491,000  
**Address:** 99 Troy Road Suite 200, East Greenbush, NY, 12061

### Project's Description

CHC proposes a demonstration project entitled, *Expanding Home Telehealth for Patients with Diabetes in the 28<sup>th</sup> Congressional District*. While the case can be made that home telehealth is cost-effective, many agencies do not have the expertise or initial capital needed to purchase the technology, reorganize work processes and train their staffs. The demonstration will provide 60 home telemonitors with peripheral glucometers, and staff training to show the feasibility as well as the effectiveness in diabetes management for patients receiving care at home. CHC proposes the expansion of home telehealth services in collaboration with HCP home care agencies, and Life Works Learning (faculty from the Cornell Institute for Translational Research on Aging) to develop the demonstration design, intervention and evaluation. An Advisory Committee made up of representatives from the Diabetes Prevention and Control Program, Diabetes Educators, and home telehealth experts will provide input into the program design and implementation.

### Project's Benefits

National data reveals that diabetes is a major health epidemic that requires an urgently needed investment in prevention and care management interventions. In New York State, the Department of Health (DOH) reports that approximately 7.7% of New York's adult population (over one million) are diagnosed with diabetes (the majority are type 2). An additional one-third

(450,000) are estimated to have diabetes but do not know it. In 2004, the NYS Medicaid program spent \$5.5 billion on 284,000 fee-for-service members with diabetes. There is a significant base of evidence in the public sector such as the VHA, CMS and Department of Defense, showing that home telehealth and remote monitoring have been proven to reduce hospitalizations and improve health and patient outcomes, especially for chronic diseases.

CHC's proposal meets the criteria of the Department of Agriculture, Agriculture, Rural Development, FDA Appropriations bill by improving access to care to home care patients in rural and underserved areas. In addition, the expansion of home telehealth supports the reorientation of health care from treating acute, episodic illness in institutions to a system that utilizes advances in technology to provide ongoing disease management and coordination of care in the community setting, which enables access to care for everyone.

CHC's evaluation report will provide the industry with new data on technology (cost), infrastructure (staff utilization), access and reimbursement issues and recommendations for how these indicators need to be addressed for ongoing quality of care and cost savings. The project will provide further evidence for statewide and national replication of long-term telehealth practices for improving quality of life for individuals living at home with diabetes.

### **Project's Potential Job Creation & Retention**

CHC does not project the development of new jobs related to this program. However, the expansion of home telehealth is expected to result in the more efficient use of existing workforce in an industry that is experiencing significant workforce shortages. Better care management will allow for more manageable caseloads thereby promoting retention of home care RNs, LPNs, and home health aides working for the agencies participating in the demonstration in the 28<sup>th</sup> Congressional District.

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### **Community Health Care Services Foundation**

**Project Name:** Home Telehealth for the Aging Population  
**Funding Request:** \$389,000  
**Address:** 99 Troy Road Suite 200, East Greenbush, NY, 12061

### **Project's Description**

CHC proposes a demonstration project entitled, *Expanding Home Telehealth for the Aging Population* in New York's 28<sup>th</sup> Congressional District. This project proposes to expand the use of telehealth for the aging population, providing additional evidence that home telehealth can provide improved care and reduce the costs of managing chronic disease in the aging population. While the case can be made that home telehealth is cost-effective, many agencies do not have the expertise or initial capital needed to purchase the technology, reorganize work processes and train their staffs. This demonstration will be directed by CHC in collaboration with HCP home

care agencies, and Life Works Learning (faculty from the Cornell Institute for Translational Research on Aging) for data collection and evaluation. The demonstration will provide 50 home telehealth monitors and supplies (5 agencies x 10 per agency) for use in the home for patients age 60 and over diagnosed with chronic illness (e.g. Congestive Heart Failure, COPD, Diabetes) to monitor blood pressure, heart rate, weight and oxygen saturation readings on a daily basis, and will provide training for home care staff about how to implement the technology.

### **Project's Benefits**

CHC does not project the development of new jobs related to this program. However, the expansion of home telehealth is expected to result in the more efficient use of existing workforce in an industry that is experiencing significant workforce shortages. Better care management will allow for more manageable caseloads thereby promoting retention of home care RNs, LPNs, and home health aides working for the agencies participating in the demonstration in the 28<sup>th</sup> Congressional District.

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### **Community Health Care Services Foundation**

**Project Name:** Home Care Jobs Campaign  
**Funding Request:** \$233,000  
**Address:** 99 Troy Road Suite 200, East Greenbush, NY, 12061

### **Project's Description**

CHC proposes a *Home Care Jobs Campaign* to assist individuals in New York State who are unemployed and seeking a career in home care by: 1) providing information about the range of professional and paraprofessional employment opportunities in home care and the qualifications for these jobs and 2) increasing access to available home care employment opportunities by specific region of New York State.

The Home Care Jobs Campaign will include the following deliverables:

1. Advertising (in HCP and CHC publications, on buses and public transportation)
2. Public Service Announcements
3. Home Care Careers Web Page
4. Online Jobs Bank- Organized by Region of NYS
5. 800 Telephone Hotline for Home Care Career Information
6. Clearinghouse for Regional Home Health Aide Certification Programs
7. Links to Home Care Training Programs
8. Links to Information on Nursing Scholarship Programs

### **Project's Benefits**

Approximately 20,000 home care agencies in the U.S. employ nearly 775,000 home care workers. In 2006, 98 million visits were provided to Medicare beneficiaries alone. The demand for home care paraprofessional workers (home health aides, and personal care aides) and professionals (nurses, physical therapists, occupational therapists, speech therapists) is projected to far outpace the supply. Filling vacant positions in home care is also critical to maintaining the quality of patient care in an industry that is already experiencing a significant workforce shortage.

The *Home Care Jobs Campaign* meets the criteria of the Labor HHS Appropriations Bill by raising awareness of the availability of home care as a growing employment sector. Given the rapid increase in unemployment resulting from our current economic crisis, it is essential that

flexibility that home care offers, and career development options in their region. Filling vacant positions in home care is also critical to maintaining the quality of care in an industry that is already experiencing a significant workforce shortage.

CHC will provide data reports on employment inquiries to home care that are generated through the *Campaign*, and will conduct follow-up surveys with those who access referral services as well as with those agencies who list job postings on the jobs bank. The Web site will be updated and sustained by CHC beyond the 12 month period through the posting of job advertisements, education fees, and other grants.

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## CUBRC

**Project Name:** Automated Sample Preparation for Biological Detection  
**Funding Request:** \$1,000,000  
**Address:** 701 Ellicott St, Buffalo, NY 14203;

### Project's Description

The rapid and accurate detection and identification of biological warfare agents in the field continues to present considerable technical challenges. Current detection and diagnostic systems require significant amounts of sample pre-treatment and processing prior to analysis. Systems that are currently deployed are typically capable of identifying only 10-20 targets in a single analysis leaving little opportunity for built-in redundancy within the analyses. This limits the number of biological agents that can be identified and lowers the level of statistical confidence in the results. Additionally, multiple detection systems are often required for different threats (toxins, bacteria, and viruses).

CUBRC is developing the ASP technology to address the challenges of sample preparation for the detection/diagnosis of biological warfare agents. The ASP technology has the ability to process both environmental and clinical biological samples for subsequent analysis on both nucleic acid and/or immunoassay detection/diagnostic systems; AND when mated to currently

fielded and new detection systems will enhance warfighter capability to detect and identify hundreds of potential targets simultaneously within a single analysis on a single detection/diagnostic platform.

### **Project's Benefits**

Automated preparation of biological samples that are compatible with multiple detection platforms is critical to fast and accurate identification of biological threats on and off the battlefield. On the battlefield, environmental samples must be processed and analyzed quickly to protect our warfighters from unprotected exposure (detect to warn). Off the battlefield, clinical samples from soldiers must be analyzed quickly and accurately to ensure proper medical attention can be provided (detect to treat). CUBRC's ASP technology was developed to rapidly process both environmental and clinical samples such that analysis can be performed on almost any fielded detection system.

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#### **David Hochstein Memorial Music School, Inc**

**Project Name:** Purchase of an adjacent 3/8 acre, 47-space parking lot to accommodate the needs of students, faculty, and staff.  
**Funding Request:** \$5,000,000  
**Address:** 50 N. Plymouth Avenue, Rochester, NY 14614

### **Project Description**

Project name: Purchase of an adjacent 3/8 acre, 47-space parking lot to accommodate the needs of students, faculty, and staff. After meeting with a number of downtown neighbors and developers, we are increasingly convinced that to do nothing to address the very real parking problem will have a damaging impact on Hochstein and its programs. This one-time expense comes as the result of the following circumstances:

- City of Rochester and County of Monroe employees fill a majority of available parking spaces in an area where finding daytime parking is a chronic problem.
- Hochstein constituent surveys continually note that "parking" is the greatest impediment to participation in our programs.
- Hochstein generates approximately 2,000 student visits per week to downtown Rochester, along with approximately 340 faculty and staff visits, not to mention the activity created by the frequent renters of our Performance Hall.
- The City of Rochester owns the lot across the street from Hochstein (Parking Lot No. 11 in the attached aerial view) and intends to develop the property through the RFP process for residential/retail purposes, eliminating approximately 230 parking spaces.
- The majority of our student activity occurs in ½ hour increments, making the purchase of a 47-car lot a reasonable solution.

## **Project's Benefits**

Under the Department of Housing and Urban Development, there is a provision to strengthen communities while supporting vulnerable populations. This is consistent with Hochstein's mission: to provide excellent music and dance instruction in a nurturing yet challenging atmosphere to any member of our community, regardless of age, background, level of skill, or ability to pay. Based on our most recently completed school year, 29% of our students represented ethnic minorities and 13% resided in homes with annual family incomes of under \$15,000. An additional 25% resided in homes with annual family incomes of under \$35,000.

Over the years, the dilemma of nearby daytime parking has gone from being an inconvenience to what will soon become a very real barrier in Hochstein's ability to provide our programs-- particularly to an underserved, "at risk" population. The imminent redevelopment of a 230-car open lot across the street from the School will seriously impact accessibility to our programs for our families and our 150 employees. If people can't get to us, we can't deliver our services. The purchase of a 47-space open parking lot adjacent to the School, based on an average 30-minute lesson during our weekday peak hours of 3:30-9:00 pm, could potentially provide as many as 400-500 daily uses.

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## **D'Youville College**

**Project Name:** Pharmacy Doctoral Program  
**Funding Request:** \$2,000,000  
**Address:** 320 Porter Avenue, Buffalo, New York, 14201-1084

## **Project's Description**

This request will provide equipment, technology and start up costs for the establishment of a new doctoral program in pharmacy. The Erie Niagara region of New York needs another program in pharmacy and D'Youville College is committed to filling that need. There are currently only six schools of pharmacy in New York State. Only two of these institutions are in Western New York: State University of New York at Buffalo and St. John Fisher College in Rochester. These schools of pharmacy focus on research and bioinformatics, respectively. However, D'Youville's school of pharmacy will focus on community-based practice to train students to work in the community setting, where the need is the greatest, such as a retail drugstore, or in a health care facility, e.g. hospital, nursing home, mental health institution, or neighborhood health clinic.

## **Project's Benefits**

America is experiencing a growing shortage of pharmacists to meet the needs of communities, hospitals, extended care facilities, and other health care agencies due to the growing number of senior citizens, the increasing complexity of medical and drug interventions, and continuing need for research not only on pharmaceutical agents, but on care management and expanded services to patients. The number of pharmacists in health care services is also growing, as pharmacists become more actively involved in drug therapy decision-making for patients of all ages, but the

number of practicing pharmacists has not kept pace with the increasing number of prescriptions nor with the expanding numbers of patients requiring a variety of maintenance drugs for extended periods of time.

The New York State Department of Labor has projected a need for 130 open pharmacy positions in Western and Central New York for each of the next five years. The estimated net shortage of pharmacists to fill the needs of the region is 85 per year. Nationwide, some estimates run as high as 157,000 pharmacists per year. It is estimated that there are 10 qualified applicants for every opening in existing schools of pharmacy. This situation is exacerbated by the growing need for professionals to cope with the medical needs of an aging population throughout the United States and the projected retirement of the aging practitioners of pharmacy.

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### **D'Youville College**

**Project Name:** College Renovation  
**Funding Request:** \$5,000,000  
**Address:** 320 Porter Avenue, Buffalo, New York, 14201-1084

#### **Project's Description**

D'Youville College proposes a major upgrading and renovation of all of its science laboratories in order to enhance and enrich the laboratory experience of the students who take science courses at the College. This project includes two (2) primary phases. First is the renovation of current laboratory facilities, including replacement or refurbishment of laboratory furniture, improved ventilation and lighting, electrical upgrades and replacement of exhaust hoods. The second phase involves the acquisition of new laboratory instrumentation and computers in order to facilitate a broad range of modern science techniques and to take full advantage of a growing array of computer and internet-based resources. These necessary improvements will also assist in the recruitment of students by making a more favorable impression on both prospective students, as well as their parents.

#### **Project's Benefits**

America is experiencing a growing shortage of science and engineering graduates. Three major trends that are combining to slow the growth of US science and engineering workforce: degree production, retirement rates, and immigration issues. Today, the US ranks 17<sup>th</sup> among all nations in the percentage of 18-to-24-year-olds who earn science and engineering degrees, whereas in 1975 the US ranked third. The science and engineering workforce is aging in America and retirement rates are beginning to rise. More than half of science and engineering degree holders are 40 or older. Fewer American students are signing up for math and science, and fewer foreigners are filling the gap. The result is a shortage of skilled workers in the very fields that are driving the 21<sup>st</sup> century economy.



Furthermore, the number of jobs requiring science and engineering expertise has increased at more than four times the rate of growth for all other jobs since 1980. The US Department of Labor expects these trends to continue. In order to keep pace, colleges need to train more students in the sciences.

To deal with these realities, the Administration, Congress and industry are appealing to educators along the education pipeline not only to encourage and support students interested in the math and sciences, but also to establish/strengthen their programming.

Programs must meet this challenge with well-prepared faculty, interactive learning opportunities, innovative curricula, and well-equipped/appropriate learning space – specifically sufficient technology and laboratories.

The rising number of students at D’Youville College has not been matched with creation of additional lab facilities. Lab layouts no longer provide appropriate hands-on learning and studying experiences and lack video and multimedia classroom instruction equipment to prepare students to work in 21<sup>st</sup> environments. At the present time, not all students have dedicated skills lab practice modules under faculty direction. There is also little time available in the skills lab to refine advanced clinical techniques, discuss cases and develop critical thinking. This renovation project will allow students access to laboratory space and equipment that will allow students to acquire complex skills, think critically, and understand intricate principles and techniques required across science-based curricula. The project will also help D’Youville to achieve the following: attract new students, increase enrollment, and provide students with state-of-the-art hands-on instruction required by appropriate higher education re-accreditation organizations.

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### **Erie County Medical Center**

**Project Name:** Women’s Bone Health Center  
**Funding Request:** \$1,900,000  
**Address:** 462 Grider Street, Buffalo, NY 14215

#### **Project’s Description**

ECMC is proposing to create the Women’s Bone Health Center as part of its expanded orthopedic health care services effort. This Center will provide superior musculoskeletal care to patients in the Buffalo Niagara Region

This Center will draw upon significant collaboration between departments, including Primary Care, Orthopedics, Geriatrics, Rheumatology, Radiology, Neurosurgery, Physiatry and Rehabilitation Medicine, while providing opportunities to integrate clinical care with teaching and research. It will allow the hospital to engage in clinical research to determine which treatment modalities yield the best results.

The Center's interdisciplinary approach to diagnosis and treatment of musculoskeletal problems will result in an efficient system for treatment of patients dependent upon their diseases, disorders and conditions.

WNY's aging population is in dire need of a center of this type. Although these services are currently being provided, the care is fragmented and can be difficult to navigate. The new Center will provide a one-stop approach to total patient care. From pre-admission testing to registration, operative experience, post-op recovery, and rehab, an entire team will work together toward the best possible outcome for the patient.

WNY is predicted to have greater than 16 % of its population over age 65 by the year 2030. By providing care and education to this population - specifically in terms of osteoporosis, obesity, and women's health issues, the center can improve the health status of the population prior to the onset of disease that is often debilitating and requiring more advanced care.

### **Project's Benefits**

The goal of maintaining skeletal health throughout life was emphasized in the US Surgeon General's Report on Skeletal Health, 2004. The overall lifetime cost of a hip fracture could be as high as \$81,000.

In the same report, the Surgeon General also cites studies that conclude that the relationship between bone mineral density and fracture is stronger than the relationship between cholesterol and heart attack, and as strong as the relationship between blood pressure and stroke.

All of Western New York would benefit from this project. ECMC is the area's Regional Disaster preparedness center and Level I trauma center serving Erie, Niagara, Chautauqua, Cattaraugus, Orleans, Genesee, Wyoming, Livingston and Allegany counties.

Other benefits include:

1. The Provision of both surgical and nonsurgical solutions to patients' problems
2. Objective assessment of different treatment modalities to determine their benefits
3. Efficient use of resources
4. Competitively priced product that can be marketed to payers and employers
5. Demonstration of decreased period of disability with more rapid return of function for its patients
6. "one-stop shopping"

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### **Every Person Influences Children**

**Project Name:** Ready, Set, Parent  
**Funding Request:** \$400,000  
**Address:** 1000 Main Street, Buffalo, New York 14202

### **Project's Description**

EPIC (Every Person Influences Children) and NFI (National Fatherhood Initiative) propose a partnership that will call upon and utilize each organization's unique strengths. EPIC has successfully innovated and implemented a program to meet with parents at the time of their child's birth – at the hospital in the maternity ward – to equip them for the role of parenting. EPIC has established its *Ready, Set, Parent! (RSP)* program as a model that has been recognized by the Mutual of America Foundation and the Collaboration Prize as one of the top collaborations in the nation. The program will be in 8 hospitals across the state, Buffalo (4), Niagara Falls (1), Syracuse (1), Bronx (1), and Queens (1).

EPIC and NFI will incorporate NFI resources and programming into the *Ready, Set, Parent!* program to achieve the objective of effectively reaching and equipping new dads. First, NFI will supply Daddy Packs™ which contain skill-building brochures and an interactive CD-ROM titled Directions for Dads™ for distribution to new dads at the hospitals. Second, Doctor Dad™, an interactive workshop designed by a physician and a registered nurse. Doctor Dad™ will be offered in community sites where *RSP* is in operation and will be heavily promoted to fathers at the hospital locations. Together, EPIC and NFI have the potential to change the lives of tens-of-thousands of children across New York State, effecting lasting change in communities desperate for opportunities like the proposed initiative.

### **Project's Benefits**

This program specifically targets academic readiness and healthy outcomes for children. Measures will include but not be limited to 5 developmental domains in children often used to measure kindergarten readiness: cognitive, language, personal/social, gross motor, and fine motor. In addition, children health outcomes like current vaccinations, well visits, and breastfeeding will be tracked. It is expected, as the research has already indicated, that both sets of outcomes will remain above the national average for children of parents who participated in Ready, Set, Parent. Currently, children of RSP parent participants are performing 77.5% of the time above the national norms in the academic outcomes and consistently outpacing national averages in the health outcomes.

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### **FlexTech Alliance**

**Project Name:** Printed & Conformal Electronics for Military Applications  
**Funding Request:** \$3,000,000  
**Address:** 84 W. Santa Clara St, Suite 630, San Jose, CA 95113

### **Project's Description**

Under Army Research Lab oversight, the FlexTech Alliance will develop and manage a supply chain and prototype development program for printed and conformal electronics that will support innovative military applications. The FY2010 request is for one year.

## **Project's Benefits**

FlexTech's primary mission is to identify and manage supply-chain projects supporting printed and conformal electronics and displays, and with an historical industry cost share of >60%, we are able to leverage the investment of DOD R&D funds. These projects are open to local & state academic institutions and companies, who will benefit from its competitiveness and job creation features.

New York is attempting to capitalize on the emerging market for flexible and printed electronics. FlexTech has supported this NY effort through current tooling and materials development projects with a total value of FlexTech-issued NY R&D contracts exceeding \$14M.

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### **George Eastman House**

**Project Name:** Palm House Renovation  
**Funding Request:** \$235,900  
**Address:** 900 East Avenue, Rochester, NY 14607

## **Project's Description**

The Palm House at George Eastman House is a glass-roofed greenhouse room built in 1905 as a unique component of this National Historic Landmark. As part of the George Eastman House International Museum of Photography and Film since 1949, the Palm House has been used for a variety of museum functions and events (e.g., the annual Dutch Connection winter horticulture events) — but it also serves as an essential connecting space between the museum galleries and the historic mansion. The Palm House's distinctive, unique design, historic character, brightness year round, and views of the East Gardens make it a memorable piece of any Eastman House visit, whether it serves as a destination for an event or function, or as a pass-through between the mansion and the galleries.

Remarkably, the Palm House glass roof stood the test of decades of rigorous Rochester climate, serving George Eastman, George Eastman House museum, and millions of visitors. But the Palm House has now deteriorated—with deterioration accelerated greatly by the remnants of Hurricane Frances in 2004—to the point where the room cannot be used for anything but a pass-through, with the small area of the Palm House used for passing through covered with a Plexiglas guard to protect visitors and staff from the possibility of falling glass.

The goal of the Palm House roof replacement project is to restore the safety, comfort, and wide usability of the Palm House—as a destination and as an important corridor for the entire Museum

## **Project's Benefits**

These critical capital improvements will save tens of thousands of dollars annually in energy costs and will strengthen George Eastman House's status and effect as a key economic driver and cultural tourism destination in Upstate New York. This project will also better protect the internationally significant assets and initiatives of the Eastman House, as well as the safety of visitors to the Museum. These improvements further the federal government's interests in sustainable economic development, energy conservation, and environmental protection.

The project will positively impact the economic and environmental health of George Eastman House, as well as improve its aesthetic quality and visitor experience. This work will generate substantial opportunities for Greater Rochester contractors and businesses.

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### **Harlem Children Society**

**Project Name:** Children Society Center for Excellence in Science  
**Funding Request:** \$900,000  
**Address:** 536 82<sup>nd</sup> Street, Suite 5F, New York, New York 10028

#### **Project's Description**

Funding will provide science education internships to 50 low-income public high school students residing in the 28th Congressional District in order to build their competencies in science, technology engineering and math (STEM) and to prepare them for college and careers in the sciences. Students will participate in paid summer and after school internships at science institutions (e.g., hospitals, universities, research centers) under the guidance and support of science mentors and with the comprehensive academic support and full menu of guidance and education services provided by HCS.

#### **Project's Benefits**

HCS services provide several national benefits.

First, HCS-CE-STEM redresses a long-standing social inequity, limited access to education and careers in the sciences for minority, low-income public school students. The under-representation of minorities in the sciences – especially engineering - is well documented.

Secondly, HCS programs are effective. Evaluations show that 100% of HCS students articulate to college, 80% majoring in science and math; over 20% enter Ivy League schools.

Third, HCS STEM science programs will equip a powerful, diverse and well-trained American workforce for the 21st Century. As one result, America's competitive edge in the global economy will be vastly strengthened, thus creating a more robust economy that can better serve the economic interests of all taxpayers.

The project holds national significance insofar as it provides employment opportunities that will advance the general purposes of the Recovery and Reinvestment Act of 2009. This project will:

Provide Summer Employment Opportunities for Youth. HCS offers summer employment opportunities through paid internships for hundreds of students at each center. HCS will utilize the ‘work readiness performance indicator’ (Section 36 of the Work Investment Act) to assess the effectiveness of summer employment for youth;

Conduct Year-Round Youth Activities: employment opportunities for high school, college and graduate students will be provided on a part-time basis throughout the year;

Prepare Students for 21st Century Careers in the Health Care Sector. HCS addresses the health professions workforce shortage by providing education and preliminary training in STEM fields. HCS advances diversity in the sciences;

Foster Community-Based Science Innovation. Students will participate in research projects that are organically connected to their communities (e.g., epidemiological studies; agricultural research etc.). Research projects will focus on energy efficiency and renewable energy among other relevant topics;

Improve Education and Schools at the Middle and High School Levels. HCS works closely with local educational agencies (LEA’s) to build their educational and staffing infrastructure;

Target High Need Schools and Subjects. HCS will engage low-income public high school students in sophisticated science education and technology.

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#### Hauptman-Woodward Medical Research Institute

Project Name: New Drug Targets in Multi-Drug Resistant Bacteria  
Funding Request: \$4,320,000  
Address: 700 Ellicott Street, Buffalo NY 14203

#### Project’s Description

This project will address the recent rapid increase of severe opportunistic post-wound infections in the warfighter caused by the drug and multi-drug resistant bacteria *Acinetobacter baumannii*. We will identify new antibacterial drug targets and develop novel lead drug compounds with the goal of acquiring effective treatments against difficult and dangerous infections. Warfighters wounded during battle are highly susceptible to opportunistic infections, greatly complicating their treatment and recovery. Their susceptibility to post-wound infections is due to the difficulty in cleaning traumatic deep tissue wounds and the near impossibility of maintaining sterile conditions during front line medical care.

Opportunistic infections of wounded warfighters greatly extend hospital stays and increase costs. Wounded warfighters are routinely treated immediately with antibiotics in an effort to prevent

opportunistic infections. Unfortunately, the occurrence of drug and multi-drug resistant strains of *A. baumannii* is rapidly increasing. Currently, 50% of these infections are resistant to treatment by at least one antibiotic, and 1 in 10 infections can't be treated by any antibiotic in routine use.

Infections by drug resistant strains of *A. baumannii* often result in limb amputation or even death. Military medical personnel have resorted to using antibiotics that were phased out in the 1970's due to toxic side effects, including kidney and nerve damage. The pharmaceutical industry has designated development of new antibiotics effective against *A. baumannii* a low priority because of the low demand within the general population.

### **Project's Benefits**

Our project will address the militarily important problem of wounded warfighters' susceptibility to multi-drug resistant infections by identifying new drug targets within *A. baumannii*, determining the molecular structure of the proteins (the lock), and then identifying chemicals (the key) that will serve as the starting points for developing desperately needed new antibiotic drugs effective against multi-drug resistant *A. baumannii*.

The presence of infected warfighters within a military healthcare center places all patients being treated at that facility at risk of acquiring the infection. Several *A. baumannii* outbreaks have recently occurred, including at Walter Reed Hospital and the large American military hospital in Landstuhl, Germany. Decontamination following an outbreak has proven difficult.

The risk of infection is greatest to those with the most severe injuries or illnesses. Minimally, *A. baumannii* infections dramatically increase the duration and cost of hospitalization. Likewise, these infections are most prevalent in the military healthcare system when the system is already stressed from treating battle injuries. In addition, a research breakthrough such as described in this project would impact the health and well-being of all patients facing drug-resistant infections in civilian hospitals.

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### **Hillside Family of Agencies**

**Project Name:** Work-Scholarship Connection Expansion  
**Funding Request:** \$250,000  
**Address:** 1183 Monroe Avenue, Rochester, NY 14620

### **Project's Description**

HFA is requesting FY2010 funds to assist in increasing its HW-SC Rochester program operations to include over 3,700 additional at-risk students in the Rochester City School District by the 2012-13 school year for a total of 6,000 participating students. In the 2008-09 school year, HW-SC Rochester will provide roughly 2,300 participating students in grades 7-12 with long-term, one-on-one mentoring relationships, academic counseling and tutoring, life skills

development, college preparation services, job training, and job placement in community businesses. Graduating students are also eligible for scholarships at local colleges and universities and continuing services through age 22. The program is uniquely benefited by the commitment of local stakeholders – including the Rochester City School District, businesses, and institutions of higher education – to the success and growth of the program.

There is a clear need for this program in Rochester: a recent New York State Education Department District Report Card found that, of the 1711 students who entered the ninth grade in the Rochester City School District in 2002, only 58% graduated four years later. The expansion of HW-SC's Rochester program will serve to further increase graduation rates and the number of students equipped with the knowledge and skills necessary to pursue post-secondary education or enter the workforce. This program is part of an Edna McConnell Clark Foundation-funded strategic business plan to replicate the HW-SC model in New York State and beyond. This is a one-time request for this phase of the Rochester program's expansion.

### **Project's Benefits**

This request furthers the mission of the Department of Education because the HW-SC program is working to improve the educational success of participating youth, and HW-SC is a highly replicable youth development and education model with documented results that can be implemented in communities across the country. A recent evaluation of the program found that HW-SC students graduate high school at twice the rate of their similarly situated peers, and over 80% of HW-SC graduates go on to pursue postsecondary education.

The need for this program is particularly great in Rochester, where the dropout rate is estimated at 58%. The requested funds will allow over 55% of HW-SC eligible students to participate in the Rochester program in the 2010-11 school year.

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### **Hillside Family of Agencies**

**Project Name:** Monroe Avenue Campus Renovation  
**Funding Request:** \$250,000  
**Address:** 1183 Monroe Avenue, Rochester, NY 14620

### **Project's Description**

In 2000, HFA began the sizeable task of renovating its century-old Hillside Children's Center (HCC) Monroe Avenue Campus to better meet the needs of the children and families it serves. With private, State, and federal support, HFA has constructed an on-campus medical clinic and emergency care shelter; reconfigured its residential cottages to provide better supervision and privacy; renovated the residential facility housing HFA's highest-need children; and redesigned the campus traffic pattern to provide a safer environment with more recreational space. Representative Slaughter secured FY2002 funding at the initial stage of this project, which



assisted with the construction of the Horton Family Center. Now at the final phase of the Monroe Avenue Campus project, HFA is requesting FY2010 funding to help cover the cost of significant renovations to the campus' Administration Building and improvements to the campus grounds and recreation areas.

FY2010 funds will assist with the installation of an elevator for handicapped accessibility in the three-story Administration Building, complete reconfiguration of the building's interior space for efficient and effective use, and replacement of the building's outdated heating and air conditioning systems. Additionally, the requested federal funds will help to cover the cost of modifications to the campus grounds and recreation areas to include improved spaces for recreational therapy and outdoor activities. These renovations and improvements will allow HFA to create a more comfortable, effective service environment better suited to the evolving needs of the children and families HCC serves at this campus.

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### **Hindelang Criminal Justice Research Center**

**Project Name:** Rochester Youth Development Study  
**Funding Request:** \$1,700,000  
**Address:** 302 North Goodman Street, Rochester, NY 14604

#### **Project's Description**

The Rochester Youth Development Study (RYDS) is an ongoing three-generation longitudinal panel study, spanning over a 20-year period, focusing on the causes and consequences of serious problem behaviors such as crime, delinquency, drug use, child abuse, and risky sexual behavior. Funding is sought: 1) to establish the RYDS Archive, which will serve as a repository for the extensive data set that is a national resource and can be made available to qualified researchers to address important developmental research questions that will inform public policy for decades to come; and 2) to follow up on the life-course development of the study participants, focusing on such examples as employment and earnings and health outcomes, enabling more definitive investigations of many issues including the long-term impact of adolescent behavior, and also gaining a comprehensive health assessment that can be used to investigate the precursors of health and illness using the prospective data of the Rochester project.

#### **Project's Benefits**

RYDS focuses on critical youth and development issues including the causes and consequences of serious problem behaviors such as crime, delinquency, drug use, child abuse, and risky sexual behavior. The project will also provide for a comprehensive health assessment that can be used to investigate the precursors of health and illness using the prospective data of the Rochester project. Moreover, the Archive, a national resource, will serve as a repository for scholars and researchers nationwide for decades to come.

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## **Horizon Village**

**Project Name:** Wellness and Rehabilitation Facility Construction  
**Funding Request:** \$750,000  
**Address:** 3020 Bailey Avenue, Buffalo, NY 14215

### **Project's Description**

We were recently awarded funding to build a 25-bed veterans treatment facility and adjacent primary care center. This project that we are requesting funding for is to complete the construction of a Wellness and Rehabilitation facility that will provide recreational, physical rehabilitation and community gathering space for the campus residents, their families, as well as others in the community.

### **Project's Benefits**

Horizon Village (HV) serves individuals with significant chemical dependency who require intensive residential treatment to stabilize their recovery, and to develop the vocational, educational, social, and recreational skills necessary for their successful continuing recovery and resumed family and community functioning.

The need for intensive chemical dependency, post-traumatic stress disorder (PTSD) and traumatic brain injury (TBI) treatment and rehabilitative services for veterans is well established.

**TBI** has been recognized as the signature injury of the Iran/Afghanistan War, is often not identified, and is associated with serious behavioral health disorders including addiction and other mental health disorders.

With respect to **PTSD** and repeated combat deployments:

- The percentage of soldiers screening positive for a mental health problem increases from 12% after the first deployment to 27% after their third or fourth deployment;
- The percentage of soldiers screening positive for PTSD is 11% for soldiers with moderate combat experience and 27% for those with high combat experience;
- Approximately 55% of soldiers won't tell their commanders of their PTSD symptoms for fear of being seen as weak, or because their fellow soldiers might treat them differently; and
- Returning soldiers' mental health problems are often not experienced until three to six months following their return home.

With respect to **community need**, it should be noted that:

- The NYS Office of Alcoholism and Substance Abuse projects an 85.3% unmet need for intensive chemical dependency residential services in our region; compare this to 100% of MET need in the downstate region.
- HV is the only facility of its kind in WNY. Additionally, there are no specialized intensive chemical dependency residential services for veterans in the region.
- Census data indicates that there are 120,253 civilian veterans in Erie and Niagara Counties from whom most HV residents are drawn, and an additional 46,089 in the other eight (8) WNY Counties HV serves. This represents approximately 14% of the civilian population age 18 or over (4% greater than the state-wide average).

The Rehabilitation/Primary Care Center will serve all residents of Horizon Village and their families and the local community through their access to primary medical care services and meeting space for community and self-help organizations. Additionally this space will allow for implementation of critically needed physical and neurological rehabilitation. Perhaps equally as important, exercise is an essential component of living a healthy lifestyle and sustaining recovery from mental health disorders and drug dependencies.

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### **Institute for Student Achievement**

**Project Name:** Create Three Small Learning Communities  
**Funding Request:** \$150,000  
**Address:** One Hollow Lane, Suite 100, Lake Success, New York 11042

#### **Project's Description**

ISA is requesting \$150,000 in funding to continue its partnership with Bennett High School and South Park High School to create three personalized and academically rigorous small learning communities (SLCs) at each school designed to graduate students prepared to for success in college and/or meaningful employment. After a planning year, the schools began the conversion into SLCs in 2007 with a cohort of grade nine students. The SLCs at both schools will grow one grade per year until all students in grades 9 – 12 are served in SLCs. ISA will remain in partnership with the schools and Buffalo School District throughout the entire school development period.

A clear, explicit set of non-negotiable principles defines the ISA research-based school reform capacity-building model. With its strategic partner, the National Center for Research, Education, Students and Teaching (NCREST) at Columbia University, ISA facilitates the implementation of these principles through coaching and professional development. Additionally, ISA provides technical assistance, administrative guidance, formative student assessments in writing and mathematics which inform instructional practice, program advocacy and program assessment.

The ISA model includes a range of customized supports and activities designed to create small personalized and rigorous learning communities that graduate students from high school ready to go on to college and/or meaningful employment. Activities include services to students in the

academic domain, as well as affective supports. ISA also provides intensive, job-embedded professional development for school administrators, guidance counselors and teachers, and a parent involvement component designed to assist parents in becoming partners in the education of their children.

### **Project's Benefits**

Each new high school graduate yields a public benefit of \$209,000 in higher government revenues and lower government spending. Furthermore, the difference in earnings between a high school dropout and a college graduate is \$950,000 - \$1,387,000.

ISA works to reduce the dropout rate and improve the graduation rate for poor, minority students who have been traditionally underserved by the system. ISA's proven results in school improvement show that it does exactly what the Fund for the Improvement of Education strives for: developing new methods of improving educational outcomes for students using methods that are replicable in many schools nationwide. A great deal of money, principally from Title I, is spent on elementary schools and elementary school students. The results have been promising but that progress disappears as students move through middle school and high school. ISA's emphasis on high school reform meets a clear need in the nation's educational system.

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### **Juneteenth Festival**

**Project Name:** African Cultural Revitalization Project  
**Funding Request:** \$1,000,000  
**Address:** 1517 Genesee Street, Buffalo, New York 14211

### **Project's Description**

Buffalo and the Western New York Region have an once-in-a-lifetime opportunity to acquire a 300 piece authentic African Art Collection. This collection has been documented and appraised.

A local Buffalo businessman purchased these rare artifacts decades ago. He has now offered to sell them to the Juneteenth Festival, Inc. This purchase will allow us to retain one of the largest single African Art Collections here in Western New York.

Students, visitors, local universities/colleges all benefit from keeping this collection locally. A quarter million public and non-public Western New York school children will benefit through field trips, outreach and educational programs. These exquisite artifacts will be displayed at Juneteenth Headquarters, 1517 Genesee Street in Buffalo, New York. The collection will further increase the number of cultural tourism visitors to our region. Some of the artifacts will be loaned to local universities, colleges and area regional art museums.

Unfortunately, none of the above may happen since a country has also declared an interest in purchasing this same cultural collection. It will cost \$3,000,000 to keep this collection in Western New York. In this collection are a video and two books with pictures and explanations

about the artifacts. These books and video can be reproduced and sent to libraries and schools throughout the Western New York Region.

This is an once-in-a-lifetime opportunity for Western New York children and adults to learn more about Africa and its heritage. It is imperative that this rare collection remains in Western New York.

### **Project's Benefits**

A quarter million students will be exposed to a rare collection of African artifacts thus increasing the awareness of African cultural heritage. An exhibit of this size will draw national and international visitors to Western New York.

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## **Kaleida Health**

**Project Name:** Global Vascular Institute Construction  
**Funding Request:** \$1,000,000  
**Address:** 100 High Street, Buffalo, NY 14203

### **Project's Description**

This project will implement the recommendations of the Berger Commission which seeks to bring badly-needed restructuring to the hospital and nursing home system in New York State. The problem of overcapacity, duplication of services and aging infrastructure are particularly acute in Western New York. Pursuant to these recommendations, Kaleida Health is moving forward to create a new academically-oriented medical center (the **Global Vascular Institute**) integrating key programs and personnel of Buffalo General Hospital and Millard Fillmore Gates Circle Hospital.

### **Project's Benefits**

This project will implement the recommendations of the Berger Commission which seeks to bring badly-needed restructuring to the hospital and nursing home system in New York State. The problem of overcapacity, duplication of services and aging infrastructure are particularly acute in Western New York. The relocation of important clinical services and programs from Millard Fillmore Gates Circle Hospital to the Global Vascular Institute at the Buffalo Niagara Medical Campus will greatly strengthen and improve the quality of health care services in Western New York and provide an important center for medical research and education of physicians.

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## **Lifespan of Greater Rochester, Inc**

**Project Name:** Elder Abuse Summit in 2010  
**Funding Request:** \$200,000  
**Address:** 1900 South Clinton Avenue, Rochester, NY 14618

### **Project's Description**

Requested federal funding will be used to pay expenses associated with convening a statewide Elder Abuse Summit in 2010. This summit will mirror and expand on the very successful 2004 NYS Summit.

Highlights of the project:

- Invitation only event – all meals, hotel accommodations, and conference materials will be covered by the funding to enable full participation by those identified experts in the field, and to guarantee representation from a cross section of professional disciplines and geographic regions.
- Approximately 130 people will be involved during the three-day Summit, including invited participants who are experts in the field, nationally recognized speakers during meals, experienced facilitators to lead and guide the participants during work group sessions, a number of Lifespan staff members experienced in coordinating similar events.
- Review of progress made on the priority recommendations developed during the 2004 Summit and updating of the recommendations.
- Release of the NYS Elder Abuse Prevalence Study – comparing results from a statewide, random-sample phone survey and data from reported cases throughout the state; along with geographic/regional comparisons.
- Not a conference – all participants are expected to fully participate in developing a new list of statewide priority recommendations to take action against elder mistreatment and neglect, and to develop implementation plans for each recommendation.
- Final report will be prepared and disseminated in New York State and nationwide.

### **Project's Benefits**

The U.S. Administration on Aging (AoA) recognized the value of a multidisciplinary, collaborative approach to addressing and responding to elder mistreatment when it established the National Center on Elder Abuse in 1988. The national commitment to protect vulnerable, older adults has become even stronger over the years and the AoA encourages states to follow a model of collaboration in addressing ways to combat elder mistreatment on a more local level.

In 2004, the NYS Coalition on Elder Abuse was formed to implement the Action Agenda created during the 2004 NYS Elder Abuse Summit. Convening a second Summit in 2010 will give us an opportunity to evaluate our progress so far and create an even stronger multidisciplinary, statewide network of individuals, private organizations and public agencies working together to protect elders from abuse, neglect and financial exploitation.

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### **Lockport YMCA**

**Project Name:** YMCA Construction  
**Funding Request:** \$2,000,000  
**Address:** 19 East Avenue, Lockport, NY 14094

#### **Project's Description**

This is a request for \$2,000,000 in Federal support for fixtures, furnishings, equipment and soft costs (architectural design); this is in addition to the \$9.5 M cost to construct a new 68,000 s.f. YMCA in Lockport, New York. Federal investment in such furnishings/fixtures/equipment for this YMCA will help enable the "Activate America" program which targets the national fight against obesity and assists the YMCA in addressing handicapped access compliance issues (ADA). Activate America is the YMCA's nationally-developed response to our country's rapidly increasing average weight. It is a comprehensive set of programs and activities that focus on improving eating habits and increasing physical activity, educating families and it is conducted and administered at YMCA facilities, and outreach sites. This appropriation request is targeted at enabling the Activate America initiative in our service area of Eastern Niagara, Northern Erie and Western Ontario counties. This project will positively impact the lives of thousands of people in our region. This project is shovel-ready: we estimate that the YMCA can break ground within 3-6 months of receiving this appropriation.

#### **Project's Benefits**

Federal Responsibility Furthered: Health & welfare, fight obesity, enable ADA compliance

Expected Local Improvement/Outcome: Growing demand by area families for YMCA programs and services exceeds our current capacity. Our present 82-year old facility (circa 1927; 28,000 sq. ft.) is located in the City of Lockport, and we also operate a 45-acre camp on Lake Ontario (Camp Kenan, Somerset ,NY). There is tremendous need to supplement the current YMCA site with a larger, handicapped accessible facility. We are committed to retaining our North Branch, so our current 28,000 sf. facility will remain a vital part of the overall operations in conjunction with the new facility . Our service area population is approx. 65,000 people and the YMCA now has market penetration of 17%. Based on the recent experience of comparable YMCA capital construction projects in Western and Central New York, we have been able to forecast our membership to conservatively grow by 300% (from 3,000 current members to 9,000 members, mostly family) and we will double our program contacts from 11,000 to 22,000 annually. This

will double our market area penetration to almost 35%. We presently collaborate with more than 85 community organizations and operate programs at 13 area outreach sites, these too will expand and further develop strong relationships. Our ability to work with the physically and mentally challenged populations alone will greatly expand our impact.

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### **Martin House Restoration Corporation**

**Project Name:** Interior Restoration  
**Funding Request:** \$1,000,000  
**Address:** 125 Jewett Parkway, Buffalo, New York, 14214

#### **Project's Description**

This request for funding is to accomplish Phase V – the interior restoration of the Martin House – which will include upgrading all mechanical, electrical and plumbing systems and linking to the geothermal exchange system already operating on campus. Work will also include fire monitoring/ suppression and campus-wide IT systems, including audio video equipment that will be utilized to develop a learning center in the historic house and provide mobility-impaired visitors with virtual tours. Interior plaster and the highly detailed paint and extensive wood millwork will be restored so that the Martin House will be ready to accept the return of its furniture and other decorative elements.

The Western New York community, as well as the State of New York and the Federal government, have been highly supportive of the restoration thus far. However, current local, state and national economic pressures imperil completion of this final major phase of work. Buffalo's plan to revitalize its economy on the strength of its architectural heritage depends on the completion of this project in order to present Wright's full vision for the site and provide visitors with optimum learning experiences. Work must begin as soon as possible to conclude by summer 2011, as more than 3,000 attendees will visit Buffalo and the Martin House in conjunction with the annual conference of the National Trust for Historic Preservation in fall 2011.

#### **Project's Benefits**

The purpose of this project is preserve and protect Frank Lloyd Wright's legacy so that America's greatest architect and his signature work – The Darwin D. Martin House Complex – can be interpreted and enjoyed for decades and generations to come.

The regional cultural tourism industry is an important component of Western New York's economic future and stability, and the Martin House is widely viewed as a lynchpin of that industry.

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## **Medaille College**

**Project Name:** LBJ Tower Renovation  
**Funding Request:** \$8,200,000  
**Address:** 18 Agassiz Circle, Buffalo, New York 14214

### **Project's Description**

Medaille College will do a complete rehabilitation of the building for the use of student housing, administrative offices, dining, a library and a bookstore. The requested federal funding will be utilized for building abatement, design, engineering, and related project development costs exclusive of building acquisition and construction costs. The College contemplates commencement of design, engineering and construction in the Fall/Winter 2009-2010 and occupancy in the Fall/Winter of 2010-2011.

### **Project's Benefits**

The renovation of the LBJ Tower will assist Medaille College in advancing its educational mission.

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## **Medical Motor Service**

**Project Name:** Vehicle Replacement Program  
**Funding Request:** \$420,000  
**Address:** 608 South Clinton Avenue, Rochester, New York 14620

### **Project's Description**

We are requesting funding to purchase 15 replacement vehicles to assist us in our mission of providing transportation to mobility impaired and low income persons. We propose purchasing 5 mini-buses, 5 minivans and 5 cars. Demand for our specialized transportation of some groups has increased 35 % during 2008—particularly for low income persons seeking access to health care. Securing sufficient capital dollars to ensure timely replacement of vehicles is a challenge to our agency; especially in today's tight credit and restrictive grant making environment.

These vehicles would be used to safely transport children in foster care and seniors to nutrition centers and health programs. The vehicles acquired through this grant would transport approximately 150 people per day to medical, social and rehabilitative programs. While we are able to secure operating funds for services, unlike the transit authority, the amount of capital dollars available to not for profit agencies such as MMS is very limited. While we routinely apply for FTA Section 5310 funding through the New York State Department of Transportation, that funding source is limited and can only meet a fraction of our capital replacement needs.

Medical Motor Service has moved to a newly renovated vehicle maintenance facility and we are able to provide quality vehicle preventative maintenance services as evidenced by our outstanding inspection rate with the New York State Department of Transportation.

### **Project's Benefits**

The benefit of the project will be to make accessible transportation more affordable to the thousands of passengers who ride our vehicles as well as the governmental and not for profit agencies that contract with our organization for the transportation of their consumers. The benefit to the passenger is access to health care and community services. The need for our service has been cited in the 2004 Genesee Transportation study entitled "Strategic Plan to improve access to non-emergency Medical Services" as well as the November 2007 "Coordination Public Transit/Human Service Plan". The project would further the goal of transportation coordination of human services transportation as promoted by the Federal Transit Administration since the vehicles will be used to transport passengers affiliated with a variety of community programs and agencies.

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### **Monroe Community College**

**Project Name:** Integrated Science Education Project Implementation  
**Funding Request:** \$300,000  
**Address:** 1000 East Henrietta Road, Rochester, New York 14623-5780

### **Project's Description**

The Rochester Integrated Science Education Project (RISE) Project is a partnership among Monroe Community College (MCC), the Rochester City School District (RCSD) and the Rochester Museum and Science Center (RMSC) designed to provide professional development to expand the science knowledge of elementary level teachers (grades K – 6). Elementary level teachers throughout the US lack sufficient skills to effectively teach life sciences.

Monroe Community College is requesting \$900,000 over three years to implement the RISE project and positively impact our community and train 180 teachers. The funds will support faculty costs for curriculum development and delivery at both MCC & RMSC, stipends for attendance of teachers and pre-teachers at RISE professional development and summer workshops, and supplies to develop science kits during workshops for implementation of hands-on projects in the elementary school classroom. Metrics will be implemented to evaluate the effectiveness and results of the program.

### **Project's Benefits**

Improvements in primary Education where, according to the National Science Foundation, less than 30% of elementary school teachers feel "Well Qualified" to teach life sciences and where a

recent survey by NYS DOE found the Rochester city schools fell way below the national average in quality of education and teacher preparedness.

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### **Mount Saint Mary's Hospital**

**Project Name:** Breast Cancer Diagnostic Equipment  
**Funding Request:** \$810,000  
**Address:** 5300 Military Road, Lewiston, NY 14092

#### **Project's Description**

The establishment of the Mount St. Mary's Hospital Breast Health Center will bring a access to proper care and a comprehensive approach to breast care for all of the women of Niagara that will include digital mammography (which is not available for women in Niagara County) and Breast-Specific Gamma Imaging, the state-of-the-art imaging technique that has proven to be an effective tool in the early detection of breast cancer. This diagnostic procedure saves lives and it is not available to the women in Niagara County or Western New York.

Our commitment to invest in the necessary equipment for our healthcare professionals – when combined with support from your office – will allow these residents to receive necessary services in a more timely manner and closer to home.

We see this as an important component to early detection and more successful treatment outcomes for all women with special attention to those who are uninsured or underinsured and who may not be able to travel outside the county for access to services.

Mount St. Mary's Hospital is the only free-standing hospital in Niagara County to be accredited by The Joint Commission, the nation's leading organization for accreditation of healthcare facilities. Our sponsorship by Ascension Health, the nation's largest non-profit healthcare system, also puts us in a unique position to receive and utilize the latest advancements in healthcare techniques. Our quality record is significantly positive.

Your support of our request for \$810,000 for the enhanced breast care and digital mammography will allow us to greatly improve the quality of healthcare in the Niagara community, will support the 1,300 area residents employed in our facilities, and will have a very positive impact on the overall community. In addition to this, Mount St. Mary's Hospital is prepared to invest the necessary funds for the retention of a Board Certified physician and surgeon to direct the project as well as the costs for needed renovations.

Convenience is a key to early detection. Your support of this initiative will provide thousands of women in the Niagara community with the peace of mind that they can receive state-of-the-art diagnostics without having to leave their community.

## **Project's Benefits**

By funding this project, the Federal Government will help to provide access for women to breast care that are currently not available without significant travel of 15-20 miles. The project being proposed includes elements to provide transportation to women to our facility. The project also includes equipment that has a proven track record of providing early detection of breast health problems and will save lives.

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### **National Inner Cities Youth Opportunities**

**Project Name:** Program Expansion  
**Funding Request:** \$250,000  
**Address:** 549 Linwood Avenue, Buffalo, New York 14209

## **Project's Description**

Funds will be used for programs, training, seminars, youth uniforms, equipment, supplies, liability insurance, consultant fees brochures, printing, and telephone.

Since 1994, National Inner Cities Youth Opportunities, Inc. has been serving Buffalo inner city youth. Our mission is to promote healthy competition, to teach self discipline and to encourage self-reliance. Our program has touched thousands of youth by providing hope and opportunity.

U.S Census Bureau statistics place Buffalo as the third poorest city in the nation with 30% of the city's population living below the poverty level. The unemployment rate at 7% leaves no doubt why our inner city youth are faced with overwhelming challenges. Our youth need opportunities to have programs that give them every chance to get off the streets and avoid the negative influences of alcohol, drugs, guns, violence, broken homes and gang related activities.

Our programs provide needed alternate choices to the daily problems that overwhelm inner city life. All inner city youth are welcome to participate in our free programs, however, we target the most at risk youths between the ages of 4-21. They participate in programs that specifically focus on delinquency, pregnancy prevention and alternatives to violence and incarceration.

Our main goal is to prevent our youth from being incarcerated by boosting their self esteem and by providing a safe place to interact while keeping them off the streets. Every youth we prevent from being incarcerated saves \$40,000 in taxpayer money.

Stakes have never been higher for our inner city youth. Devastating economic times compounded by state budget cuts have forced us to look for additional sources of funding to maintain our effective programs.

## **Project's Benefits**

The National Inner Cities Youth Opportunities, Inc. will assist in preventing our inner city youth from being incarcerated by boosting their self esteem and providing a safe place to interact. Every youth we prevent from being incarcerated saves over \$40,000 in taxpayer money.

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### **Nazareth College**

**Project Name:** Center for Math & Science Education Equipment  
**Funding Request:** \$2,200,000  
**Address:** 4245 East Avenue, Rochester, NY 14618

## **Project's Description**

Nazareth College plans to use its unique ability as an institution of advanced teaching and health education to meet a growing need in Western New York and specifically the Rochester area. Through a major \$27 million investment in technology, laboratory and classroom space in a Center for Math & Science Education, Nazareth seeks to further enhance its role as the preeminent college for teacher preparation in the Rochester region, but increasing its efforts in the disciplines of K-12 math and science certification.

## **Project's Benefits**

According to The National Academies of Science "Gathering Storm" Report, the United States is currently ranked 24<sup>th</sup> out of 29 developed nations in math and science knowledge. The NEA projects a need for 2.4 million new teachers in all subjects in the next decade, with the biggest deficit in the cohort of math and science teachers. In our local and national economies, innovation is the prerequisite for developing the new ideas that will produce jobs. As one national organization states, "the capacity to innovate is the most critical element in sustaining competitiveness." Such innovation requires people trained in math and science. This, however, is where the crisis emerges. The U.S is falling behind other countries in producing individuals with skills in those fields. Indeed, we are lagging far behind other countries in producing college graduates with degrees in math and science.

The problem begins well before college, in the elementary and secondary schools. The Council on Independent Colleges and Universities recently reported that in the 4<sup>th</sup> grade, U.S. students score above the international average in math and near first in science. In 8<sup>th</sup> grade, they score below the international average in math and only slightly above in science. By 12<sup>th</sup> grade, U.S. students are near the bottom of a 49 country survey in both fields of study. Former astronaut and Senator John Glenn, Chair of the Commission on Mathematics and Science Teaching for the 21<sup>st</sup> Century, is very troubled by a trend that places U.S. students, who once led the world in math and science proficiency, near the bottom. "By the time American students have graduated from high school, they are almost last—two or three from the bottom—on a list of industrialized nations," says Glenn.

A blue-ribbon panel of experts from the National Academies has identified as its number one recommendation that we annually recruit 10,000 math and science teachers, and strengthen the skills of 250,000 existing K-12 teachers.

Filling this projected shortage is a daunting challenge, but Nazareth's education programs address the problem where it begins: in elementary and secondary schools. A Nazareth undergraduate with an education certification will touch the lives of roughly 1,000 students in his or her lifetime. Our graduates educate future scholars and innovators, who, in turn, will contribute to technology, medicine, and the environment in untold ways. Alumni surveys and state data suggest that the majority of Nazareth graduates in education stay in the region and build their careers locally. In fact, almost all of the graduate alumni are in the area, as they have already established their teaching career upon entry into the graduate program.

The College's plans to address these needs are multifaceted and include new facilities, new academic programs that attract an increased number of students, community and regional partnerships, and the creative use of technologies.

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### **New Man Community Development Corporation**

**Project Name:** Warehousing Classroom Expansion Project  
**Funding Request:** \$250,000  
**Address:** PO BOX 98, REHRERSBURG, PA 19550, 717-933-7110

### **Project's Description**

The Warehousing Classroom Expansion project will expand the warehousing employment training program currently offered by New Man by adding needed trainers, equipment, and supplies. Currently, New Man's training program is limited by the lack of warehousing equipment in classroom settings. Instead, students receive on-the-job training. In order to provide the highest quality of training possible – and to deliver fully-trained employees to the employers who need qualified, cost-effective warehousing employees – New Man plans to expand its program by building training facilities that replicate the actual work environment into which graduates of the program will transition.

### **Project's Benefits**

New Man plans to expand its training program to nearly \$8 million over the next three years, allowing graduation rates to increase by more than 300%. Each new graduate represents a valued employee at local businesses in Buffalo and Rochester and a success story in the war on drugs. Every \$1 of taxpayer funds would be matched by \$3 from New Man through private donations and project revenue over the term of the expansion.

New Man is expanding this program to help more individuals that have completed or are completing a long-term addiction recovery program. Over the life of the expansion, a federal investment of about \$4 per day per student will create a learning environment to allow recovering addicts to gain the skills needed to re-enter society, reunite with their families, become valued employees and rebuild their lives.

The Workforce Improvement Act of 1998 (Public Law 105-220) included a purpose to increase occupational skill attainment by participants and (as a result) to improve the quality of the workforce, reduce welfare dependency, and to enhance the productivity and competitiveness of the local economy. The Warehousing Classroom Expansion project will help to accomplish these goals by producing cost effective employees for businesses in Upstate New York.

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### **New Man Community Development Corporation**

**Project Name:** Employment Preparation Program  
**Funding Request:** \$50,000  
**Address:** PO BOX 98, REHRERSBURG, PA 19550, 717-933-7110

#### **Project's Description**

The Employment Preparation Program project will provide year-round pre-employment preparation training five (5) days per week for four (4) weeks to individuals in the last month of a four-month addiction recovery program. Curriculum includes interpersonal communication, interviewing skills, basic office skills, conflict resolution skills, and other necessary components to winning and keeping a job. Classes will be taught by trained educators based at New Man headquarters using internet-based video conferencing. Local classroom assistants will provide hands-on, local assistance. Federal funds will be applied toward first-year staffing costs, capital acquisition, and other start-up costs. The program will be self-sufficient after the first year.

#### **Project's Benefits**

One purpose of the Department of Justice's Byrne Discretionary Grants program, authorized by the Anti-Drug Abuse Act of 1988 (Public Law 100-690), is to identify and meet the treatment needs of adult and juvenile drug-dependent and alcohol-dependent offenders. The Employment Preparation Program meets the requirements of this authorization by identifying and meeting the pre-employment needs of individuals completing an addiction treatment program and preparing to re-enter the community.

Local outcomes could be measured by tracking the employment status of graduates from long-term addiction treatment centers in Buffalo and Rochester to determine employment status. The program anticipates improved ability among graduates in gaining meaningful employment.

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## Niagara County Community College

**Project Name:** Hospitality and Tourism Center Equipment  
**Funding Request:** \$350,000  
**Address:** 3111 Saunders Settlement Road, Sanborn, NY, 14132

### Project's Description

NCCC respectfully requests funding for a one-time equipment expense. Requested equipment will be installed in the laboratories within the new Hospitality and Tourism Center. The Hospitality and Tourism Center will provide area students with the skills they need to enter the growing hospitality and tourism workforce, while serving downtown Niagara Falls through community and continuing education, corporate training, and small business development support. This project goes beyond one building, changing the lives of students, and the community by fulfilling the mission of the college to provide high-demand education to our community. Located in the urban core of downtown Niagara Falls, the Center will positively affect the community by contributing to and leveraging the regional assets of Niagara Falls.

### Project's Benefits

The new center will help stabilize the educationally and economically underprivileged area of downtown Niagara Falls. According to 200 Census data, in the area immediately around the Center 27.6% of families are below the poverty line. The center will help to stabilize this neighborhood by attracting local residents to enroll in NCCC credit and non-credit community programs, acting as an anchor for economic development, attracting tourists and business to the fine dining restaurant (exhibition kitchen), improving the exterior aesthetics of the neighborhood and increasing local property values. Five years following the Center's opening the resultant total aggregate increase in economic impact is conservatively estimated in excess of \$3.5 million annually.

The Center will provide career and transfer programs that are designed to improve the self-sufficiency of students. The expansion of the culinary arts, hospitality and tourism programs and the resultant growing enrollment will positively affect the economic well-being of western New York residents. NCCC's Culinary Arts program provides students with hands-on as well as theoretical aspects of food service. Graduates enter the job market with above entry-level skills and a background which enhances their chances for upward mobility.

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## **Niagara Experience Center**

**Project Name:** Niagara Experience Center Construction  
**Funding Request:** \$20,000,000  
**Address:** 222 First Street, 7<sup>th</sup> Floor, Niagara Falls, NY 14303

### **Project's Description**

USA Niagara Development Corporation, on behalf of Niagara Experience Center, Inc., requests a grant in the amount of \$20 million to advance the development of the Niagara Experience Center (NEC), a \$108 million experience museum and heritage park complex in downtown Niagara Falls, New York. The museum will focus on the culture, history, geography, and majesty of Niagara Falls. The complex will also serve as a regional concierge, connecting the cultural institutions in the region and leveraging the large attendance at Niagara Falls State Park to promote a strong cultural tourism industry throughout Western New York.

The NEC is a project that was born from this community. The idea for a museum dedicated to the Falls was formed shortly after the Niagara Reservation (Niagara Falls State Park) was established as the first State Park in the nation in 1885. This idea has finally been articulated through the work of dedicated members of the community. In 2004, Niagara Experience Center, Inc. was created as a 501(c)(3) not-for-profit corporation with the mission of establishing and administering the NEC.

### **Project's Benefits**

The NEC will be a driver for economic development in Niagara County, a region that is in significant need of an improved tax base. The attraction will build off the Falls themselves and encourage private taxable development surrounding the NEC. By building off the Falls, the NEC will take advantage of the natural wonder and enhance the tourist experience in Niagara Falls, New York, encouraging repeat visits and longer stays in the future. This, in turn, will generate jobs for local residents and revenue for local businesses.

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## **Niagara Falls Memorial Medical Center**

**Project Name:** Equipment Upgrades  
**Funding Request:** \$1,010,000  
**Address:** 621 Tenth Street, Niagara Falls, NY 14302

### **Project's Description**

21<sup>st</sup> Century Personalized Healthcare System: Niagara Falls Memorial is requesting equipment upgrades that support efficient, safe, patient-centered care. These upgrades will assist Memorial to reconfigure services to better meet patient health care needs, utilizing state-of-the-art technology that supports individualized patient care and promotes patient safety. These

advancements are critical to the ability to provide safe, efficient healthcare to the poor and elderly in Niagara County. Specifically, this project includes:

*Cardiac MRI* upgrades to promote the early diagnosis and detection of coronary artery disease without the use of radiation. This service will complement the array of Memorial's state of the art cardiac services including CTA angiography and PET scans, assuring the use of the most appropriate diagnostic tools for each patient.

*Patient Monitoring systems* that allow fast, accurate monitoring of patient status, increasing patient safety. Updated monitors will allow physicians to monitor a patient's vital signs from any web enabled computer, both in real time and historically. Updated monitors will be installed in the Emergency Department and the Intermediate Care Unit.

*ICU "Smart beds"* provide a higher level of patient care and comfort while enhancing staff and patient safety. "Smart beds" gather patient data that can be integrated into the patient's electronic medical record, provide proper positioning for patient therapies, alert staff of bed conditions requiring attention, and transmit reminders for turns and other procedures.

The result will be improved healthcare quality at reduced costs.

### **Project's Benefits**

This project will facilitate the delivery of improved healthcare at reduced costs. Technology provides numerous ways to individualize patient care, increase patient safety and promote efficiencies in the healthcare system. These technological advances:

- Allow patient data to be gathered quickly and integrated into the patient's medical record
- Increase access by physicians in the hospital and after discharge
- Customize care to individual patient needs
- Promote compliance with clinical best practices.

Cardiac MRI images are generally clearer and more detailed than many other imaging methods. It can be completed quickly and minimize risks related to other procedures. Cardiac MRI can assist to identify and diagnose cardiac issues in patients for whom CTA and PET would not be recommended.

Advanced Patient Monitors allow fast accurate ability to monitor patient status at all times and improves follow-up care. Physicians can monitor a patient, in real time from any web-enabled computer and can review a patient's status historically to assess treatment efficacy. Data can also be integrated with the patient's electronic medical record, making the data readily available to the patient's primary physician or medical home after discharge from the hospital.

Advances in bed technology offer significant improvements in patient outcomes. "Smart beds" gather important patient data, assure that patients are properly positioned for therapies – critical for patients on ventilators, for examples, avoids bed-related health care issues and increases staff safety.

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## Niagara University

**Project Name:** Center for Integrated Sciences Construction  
**Funding Request:** \$2,000,000  
**Address:** Alumni Hall, 1<sup>st</sup> Floor, Niagara University, New York 14109

### Project's Description

This project includes the construction and equipping of a new 42,000 square foot facility to accommodate research and instruction in the following academic disciplines: biology, bioinformatics, chemistry, computational chemistry and physics. The building will comprise laboratories, classrooms, faculty offices and space for interdisciplinary collaborative discussion and research among faculty and students. The project also includes relocation of state of the art equipment purchase over the past five years to support faculty and undergraduate student research. The project has received considerable attention in the region both for its significant economic implications as well as its cutting-edge concept. The university is particularly proud that B. Thomas Golisano has committed a gift in the amount of \$10 million for this project.

All funds acquired through this request will be used for capital construction of the B. Thomas Golisano Center for Integrated Sciences on the Niagara University campus, a new state-of-the-art science and research facility.

### Project's Benefits

With respect to federal priorities, this project is aligned with the 2007 *America Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, And Science Act* (America COMPETES) by strengthening the university's scientific education and research, improving our technological enterprise, attracting the world's best and brightest workers, and providing 21st century job training. This project will assist in the production of highly qualified STEM students going on to graduate school, medical training and the science education and K-12 science, mathematics and technology teaching fields. As well, it supports the intent of the recently passed economic recovery package.

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## Niagara University

**Project Name:** Campus Infrastructure Enhancements  
**Funding Request:** \$470,000  
**Address:** Alumni Hall, 1<sup>st</sup> Floor, Niagara University, New York 14109

### Project's Description

A university's ability to attract students and faculty depends not only on the quality and rigor of its academic program but also on the services and amenities available to students and the campus community as a whole. In May 2007, Niagara University unveiled a campus master plan for the

future, and launched an \$80M comprehensive fundraising campaign in support of that plan and the university's strategic plans. Key to the goals of both plans is a new science facility. In order to support the new science facility and other projects, the university must upgrade its infrastructure, and relocate and enhance its parking facilities.

### **Project's Benefits**

As this project is an essential prerequisite to the commencement of facility construction on campus, it is aligned with the priorities detailed in the university's request for funds to complete the B. Thomas Golisano Center for Integrated Sciences. They are: the 2007 *America Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, And Science Act* (America COMPETES) as this project ultimately allows for the strengthening of the university's scientific education and research, improving our technological enterprise, attracting the world's best and brightest workers, and providing 21st century job training. As well, it supports the intent and scope of the recently passed economic recovery package.

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### **Niagara University**

**Project Name:** Campus Mass Notification System Installation  
**Funding Request:** \$450,000  
**Address:** Alumni Hall, 1st Floor, Niagara University, New York 14109

### **Project's Description**

Technology funding is needed to complete the installation of our integrated mass notification system. The first phase was installed last summer. Completion of the installation will enable us to improve and expand current emergency response and crisis management efforts to comply with the standards and recommendations set by NIMS and the Department of Homeland Security; expand current practice drills and exercises; improve and expand general campus training; meet the diverse needs of individual students, particularly those with disabilities; and, ensure that specialized plans are in place for prevention of violence on campus and pandemic planning, preparedness, response and recovery. The planned activities include the following priorities. (1) Complete the acquisition and installation of the Mass Notification System; (2) Revise the current emergency and disaster plan to become an all-hazards document that incorporates ICS and NIMS; (3) Conduct a campus-wide all-hazards vulnerability assessment; (4) Develop or enhance written plans for each of the following: campus violence, flood emergency, border closure, pandemic response, and persons with disabilities; (5) Strengthen the capacity of the university to continue operations in the event of a large scale incident. Funds will be used to purchase and install technology to complete the installation of an integrated mass notification and emergency management system to meet the specialized needs of our campus. Phase One was purchased and installed in 2008.

## **Project's Benefits**

This project is aligned with and supports the mandates of the U.S. Department of Education (ED) and the U.S. Department of Health and Human Services (HHS) to assist institutions of higher education to develop and implement emergency management plans for preventing campus violence (including assessing and addressing the mental health needs of students) and for responding to threats and incidents of violence or natural disaster in a manner that ensures the safety of the campus community under the Safe and Drug-Free Schools and Communities Act (20 U.S.C. 7131).

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### **Niagara University**

**Project Name:** Curricular Enhancement in Nursing Department  
**Funding Request:** \$350,000  
**Address:** Alumni Hall, 1<sup>st</sup> Floor, Niagara University, New York 14109

## **Project's Description**

This project proposes strategic redesign the Department of Nursing's curricular options for incoming students to provide greater access to degree completion programming for future nurse leaders. This curricular realignment will increase the departments reach and flexibility and seeks to develop specific measures for helping to prepare nurses for military service and upgrading opportunities for veteran nurses returning to the workforce. If awarded, these funds will be used to expand the program and building capacity by implementing a "triple-track" (three options) that allows maximum flexibility for students at any juncture of their career and life. The purpose of the Nursing Project is to increase the supply of BA prepared nurses New York and nationwide by enrolling and graduating registered nurses at the baccalaureate level. Funds will pay for the development of new courses and personnel.

## **Project's Benefits**

This project directly responds to *Healthy People 2010*, with its two overarching goals to increase quality and years of healthy life and eliminate health disparities. Specifically, the following focus areas and objectives apply to the NU BSN Program: (Healthy People Goal) Improve access to comprehensive, high-quality health care services. This is to be accomplished through the following focus areas: Focus Area 1: Clinical Preventative Care (1-7); Focus Area 11. Health Communications (11-6); and, Focus Area 23. Public Health Infrastructure (23-8).

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## **Oak Orchard Lighthouse Museum**

**Project Name:** Oak Orchard Lighthouse Museum Construction  
**Funding Request:** \$75,000  
**Address:** 14357 Ontario St, PO Box 23, Kent NY

### **Project's Description**

Our request for funding is to be able to complete the construction for the Oak Orchard Lighthouse Museum project. We have raised approximately half of the required funding to start the project through local contributions and a one time grant from Sen Maziarz. Through this federal funding, we will be able to complete this shovel ready project. Currently Construction costs have changed many times since we began our project 2003.

This is a one time request for funds to construct the lighthouse structure, walkways and landscaping and returning the original oil house to the site. Not only will it increase awareness in our rich and diverse history but it will also be a resource center for the artifacts that have been collected for young and old to view.

### **Project's Benefits**

The Orleans County area is the poorest county in New York. In the past 30 years we have lost several businesses that employed our citizens.( Lipton's, Fisher Price, Hunts, and Bayex) We also pay the highest property taxes in the country. The construction of the lighthouse will not only give our area a resource center for citizens to learn of the unique history of our hometown but will also attract tourists who have an interest in the history of the lighthouse and the ships that in guided into to port. Tourists spend money, and people that spend money create jobs.

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## **Our Firefighter's Children's Foundation**

**Project Name:** Fire Safety & First Aid Programming  
**Funding Request:** \$96,175  
**Address:** 1695 Madison Avenue Suite 8C, New York NY 10029

### **Project's Description**

**Rappin Fireman Fire Safety Program:** It is a 45 minute high energy educational and entertaining presentation. With the assistance of such learning tools as puppets, Freddie the Fire Truck, Sparky the fire-dog and pumper, The Hydrant robots, the tunnel of smoke ( collapsible smoke filled house), and audience participation. Featuring songs like Stop, drop and roll, Smoke Detectors, 911, Don't Play With Matches and The Rappin Fireman theme song. Children receive fire helmets and coloring books. These programs will benefit those most vulnerable members of our community, specifically children age 14 and younger, the elderly, the mentally /physically handicapped and non English speaking immigrants.

**First Aid Program at Senior Centers:** A 45 minute Bi-lingual introductory first aid session taught throughout many Senior Centers throughout New York City. The Program would entail a more advanced lesson plan from first aid kids along with specific instructions for first aid for seniors.

**The Firehouse Circus:** The firehouse circus is held in the month of October/Fire prevention month. It is held in a big top circus tent. A phenomenal extravaganza that brings 20,000 school children of all ages to witness a blend of fire safety and circus acts. Log on to Youtube.com for a 2 minute preview. (search The Firehouse Circus).

### **Project's Benefits**

If our grant application is accepted, these programs will continue to benefit those most vulnerable members of your community, specifically children age 14 and younger, the elderly, the mentally /physically handicapped and non English speaking immigrants. The specific objectives of these programs are as follows:

- To specifically educate children ages 14 and younger, the elderly and the mentally and/or physically handicapped and non English speaking immigrants about Fire safety, Fire Prevention and first aid.
  - To enhance our ongoing comprehensive fire prevention/fire safety education/first aid programs in public schools, senior citizen organizations and the community, specifically designed to address the needs of those demographic groups previously listed;
  - To make our bi-lingual programs accessible to all people of all ages throughout the city; and diffuse the fear created by the status of undocumented immigrants.
  - To maintain the programs in perpetuity, by incorporating our fire safety /prevention/ first aid programs with events sponsored by mainstream New York agencies.
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### **Rape, Abuse & Incest National Network**

**Project Name:** National Anti-Sexual Assault Initiatives  
**Funding Request:** \$3,000,000  
**Address:** 2000 L Street NW, Suite 406, Washington, DC 20036

### **Project's Description**

RAINN is seeking an earmark appropriation to support the following national anti-sexual assault initiatives of national significance (which are authorized at \$3 million annually):

**National Sexual Assault Online Hotline:** \$1,500,000 of the requested funding would be used for continued security monitoring; to expand hotline capacity through continued recruitment, training and supervision of hotline volunteers; to expand the salaried online hotline staff for the purposes of ensuring oversight; and for development of online victim resources.

**National Sexual Assault Telephone Hotline:** \$750,000 of the funding requested would be used to provide continued technical assistance to the rape crisis centers who are RAINN's local affiliates, to ensure the hotline provides quality services, and to publicize the availability of the hotline to victims of sexual violence, their friends and families.

**RAINN's Nationwide Education and Outreach Programs:** \$750,000 of the requested funding will help support RAINN's major education and outreach programs. One such program is RAINN Day, a peer education program that promotes sexual assault awareness and risk reduction on college campuses and serves almost 1,400 college campuses annually. RAINN would use the funding to strengthen the relationships already existing on college campuses, and expand the program to reach high schools nationwide.

### **Project's Benefits**

Every 2.5 minutes, another American is sexually assaulted. The more victims RAINN helps through the following programs, the more rapists will be brought to justice (because victims who get counseling are more likely to follow through to prosecution):

The National Sexual Assault Hotline (800-656-HOPE) and the National Sexual Assault Online Hotline (rainn.org) currently provide free and confidential services that are available to victims 24 hours a day, 7 days a week.

RAINN operates its hotlines in partnership with over 1,100 local rape crisis centers in all 50 states and the District of Columbia, including ***41 in the state of New York***. These services have helped over one million victims of sexual assault from around the country since 1994. It is critical that these services continue to receive funding so that victims of sexual violence retain access to the services vitally needed for a full recovery.

In addition, RAINN Day, RAINN's college outreach program, currently operates in all 50 states, the District of Columbia, and Puerto Rico. Besides raising awareness on how to reduce one's risk of sexual assault on a college campus and what to do if you or a friend is assaulted, RAINN Day also represents the first national anti-sexual assault social norms campaign, using positive peer pressure to educate college men about consent and intervention issues. RAINN would use the requested funding to educate more students on college campuses, in addition to further developing its programs to reach high school students.

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## **Rochester Institute of Technology & Delphi Automotive Systems, LLC**

**Project Name:** Accelerating Fuel Cells Manufacturability  
**Funding Request:** \$2,000,000  
**Address:** 30 Lomb Memorial Drive, Rochester, NY 14623

### **Project's Description**

The Center for Integrated Manufacturing Studies (CIMS) at Rochester Institute of Technology (RIT) and the Delphi Automotive Systems, LLC (Delphi) are undertaking a joint research and demonstration initiative to accelerate the application of fuel cell technology into U.S.

Department of Defense (DoD) stationary and mobile power systems.

The US Armed Services are in the midst of a technology revolution. Situational awareness, future weapons and protection systems will require more electric power, generated quietly and at higher efficiency. There are significant benefits associated with using fuel cells to meet these needs. Fuel cells can provide quiet, flexible, and fuel-efficient operation that makes them suitable for use in "stealth" vehicles or quiet portable power systems. The most critical challenges facing the DoD with regard to the direct application of SOFC fuel cell technology for auxiliary and portable fuel cell power applications are reliability, and durability, and cost. There is a need to develop test protocol and conduct accelerated systems-level reliability and durability testing to identify root causes of failure and degraded performance. For fuel cell technologies to have a realistic place in the DoD technology portfolio they will also need to meet DoD and industrial codes and standards for safety, performance, durability and reliability. There is a need to research, test, and validate the potential for moderate to high volume assembly of fuel cell components into high performance systems. There is also a need to merge fuel cell system design and manufacturing with end-of-life issues. This joint research and demonstration initiative will bring the collective experience and expertise of two leading organizations to bear on these DoD technology challenges. Since 2001, RIT has been building core competencies within CIMS for fuel cell system design methodologies that can help industry identify options to minimize life-cycle costs. Delphi has been developing its fuel-flexible, modular SOFC system for the past 10 years, and has been partnering since 2002 with the US Department of Energy (DOE) under the DOE-industry sponsored Solid state Energy Conversion Alliance (SECA).

Funding is requested for FY2010 to continue with the next phase of this multi-year research program, leading to a Modular Solid Oxide Fuel Cell Manufacturing Readiness Demonstration of the manufacturing processes and materials required to address the military's need for SOFC electrical power generation and accelerate the volume production and commercialization opportunities of the SOFC.

### **Project's Benefits**

The fuel cell sector is an emerging growth market that could generate an estimated \$15 billion in revenue globally over the next ten years.

This joint CIMS and Delphi research project has the potential to accelerate the Rochester region's strategy to position itself strongly for the future knowledge-based jobs associated with advanced energy solutions. The proposed program will compress the time frame for transitioning the SOFC power system from its present laboratory state to a state of production readiness. By developing and implementing a Cooperative Industry/Academic Fuel Cell Development and Demonstration Test Site (Fuel Cell Farm) and a Facility for Prototyping Volume Assembly and Remanufacturing Processes at RIT, and advancing production readiness of Delphi's SOFC power system, this project will further develop the foundation for an alternative energy economic cluster that creates an increased number of higher-wage jobs and economic growth.

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### **Rochester Area Colleges**

**Project Name:** Center for Excellence in Math and Science Expansion  
**Funding Request:** \$1,000,000  
**Address:** 4245 East Avenue, Rochester, NY 14618

#### **Project's Description**

The requested funding for The Center for Excellence in Math and Science when combined with other State and private funding will enable the Center to expand its teacher professional development, its efforts to attract and retain the best prepared K-12 STEM teachers and its student-focused strategy.

#### **Project's Benefits**

Although historically a local responsibility, the Federal government has increasingly engaged in establishing performance expectations in literacy, mathematics and most recently science competency. Despite some of its shortfalls, Federal legislation like No Child Left Behind (NCLB) is focusing attention and resources on improving educational results. In the short term, the Center was formed to improve the effectiveness and efficiency of local higher-ed driven, K-12 educational reform initiatives. In the long-term, the Center's programs, when combined with other regional workforce development efforts, are designed to prepare the technical workforce necessary to attract future high-technology investment. Initially, results are measured in terms of numbers of teachers participating in Center programs, self-reported effects on these teachers' practice and the subsequent impact on students. To date 300 teachers who teach an estimated 10,000 students have taken part in Center programs. The Center expects to double this teacher participation rate and the implied student impact over the next two years. Within this year the Center will establish base-line measurements of the numbers of students who are enrolling in, and successfully completing, technically based academic programs and entering the technically-based workforce.

## **Project's Potential Job Creation & Retention**

It is not possible to directly tie this request to immediate job creation or retention. The Center's efforts represent a long term investment in the region's workforce. The New York State Department of Labor estimates that 33% or 210,000 new regional jobs in 2016 will require post-secondary education. The shift of the regional economy from a traditional manufacturing base to a new knowledge-based economy suggests math, science and technology to be a significant portion of this educational requirement. Included are the educational needs of the region's rapidly growing health care industry which now represents the region's largest single economic sector. Significantly improved curricular and extra-curricular science and math education are critical elements in assuring that the region has sufficient workforce capabilities to attract and retain high-tech investments. The Center's teacher-focused (recruitment, retention and professional development) and student-focused programs (excite them and engage them) are intended to help prepare a workforce that will attract this investment.

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### **Rochester General Health System**

**Project Name:** Emergency Department Expansion  
**Funding Request:** \$1,000,000  
**Address:** 1425 Portland Avenue, Rochester, NY 14621-3095

## **Project's Description**

The goal of this project is to provide a much-needed expansion and upgrade to the Emergency Department facility and equipment. The Emergency Department was built in 1976 to accommodate approximately 50,000 visits per year. In 2007, the Emergency Department received more than 80,000 visits and we anticipate that by the end of this decade the Emergency Department will receive almost 100,000 visits annually. As a result, RGH is in the process of a 13,200 square foot expansion adjacent to the existing department, a thorough renovation of the existing department and an equipment upgrade include a CT scan, digital radiography and an electronic medical and logistics system.

## **Project's Benefits**

RGH serves a particularly needy population. Effective January 1, 2006, the NYS Board of Regents approved the addition of RGH to the Regents-Designated Physician Shortage Area list (RPSA List). Specifically, within the RPSA list RGH was added to the list of Additional Facilities Designated as Primary and Non-Primary Care Shortage Areas for Service to a Special Population, with the special population identified as Medicaid-eligible and medically indigent individuals.

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## **Rochester High Falls International Film Festival**

**Project Name:** High Falls International Film Festival Expansion  
**Funding Request:** \$80,000  
**Address:** 45 East Avenue, Suite 400, Rochester, NY, 14604

### **Project's Description**

We respectfully ask your assistance in securing an appropriation in the 2009-2010 Federal Budget for the 9th annual Rochester High Falls International Film Festival, to be held May 18-24, 2010 in Rochester, NY. This annual, ongoing event is presented by Picture Fest International, d/b/a the High Falls Film Festival. As you know, the primary goal of the High Falls Film Festival is to strengthen the economy of the Rochester region. The Festival draws tourists from over 20 states and some international locations to the downtown area during its six days of activity. These tourists spend more than \$1 million per year in Rochester's restaurants, hotels and coffee shops. Second only to the Jazz Fest, the Rochester High Falls International Film Festival is the area's strongest artistic economic engine.

### **Project's Benefits**

Each year the festival stimulates the downtown Rochester economy by drawing an audience of 10,000 tourists and regional film fans to the area, who spend some \$1.3 million in surrounding restaurants, shops, parking facilities and hotels. The Festival will provide its audience with over 90 films, including features, documentaries, short films, animation, and more. We will feature at least one guest that is associated with each film shown, in order to provide the audience with access to filmmakers and the filmmaking process. Filmmakers, in turn, will be provided with tours of Rochester and Western New York's scenic natural settings, waterways, and historic, period-evoking architecture. They will also tour the area's film production facilities, soundstages, and post-production houses. Our goal is that our filmmakers will consider returning to our region to shoot their next film. Such was the case in 2008, when filmmaker Chris Frisina brought his film, *American Son*, to High Falls. He is now in pre-production on a film that he will set in the Finger Lakes region. Such an outcome could bring millions in "below the line" film production spending to our local economy.

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## **Rochester Museum & Science Center**

**Project Name:** Museum Third Floor Renovation  
**Funding Request:** \$1,000,000  
**Address:** 657 East Avenue, Rochester, NY 14607

### **Project's Description**

The Rochester Museum & Science Center plans to renovate the third floor (2 million dollars) to create an educational experience and exhibition (3 million dollars) that will excite children and families about science, stimulate adults about the region and will further interest in science and technology education.

Rochester's Innovation Place will celebrate the Region's innovative and inventive past, while linking to today's inventive and entrepreneurial accomplishments. Our goal is to create, motivate and stimulate the next generation of inventors and entrepreneurs. The centerpiece of this exhibition will be hands-on and minds-on experiences that will focus on five technology areas that are vital to our area's economy historically yet are also keys to our future. We have prototyped Optics and Imaging exhibits and are now working on our Fuel / Energy exhibits, which includes a demonstration solar project, currently under review by NYSERDA.

The other key component areas are biology and biotechnology, communications and printing, entertainment and animation. We will also incorporate Rochester's Business Hall of Fame as an integral part of this exciting renovation. Additional areas of this exhibition will include one devoted specifically to invention, as well as one designed to help introduce entrepreneurship strategies. A terrific set of project advisors and partners include University of Rochester, Rochester Institute of Technology, Nazareth College, Xerox, Junior Achievement, to name a few.

The 14,000 square feet of space needs significant renovation to achieve today's standards and comply with all necessary codes. The area is not climate controlled and therefore is not useful part of the year. Nor does it put our region in a modern context. Our design includes adding light to the galleries and creating a great atmosphere to stimulate learning. The renovation will also include the relocation of restrooms to a central location on 3<sup>rd</sup> floor and other hospitality amenities. Additionally, the renovation will create enough contiguous space for future large traveling exhibits so there is opportunity for major traveling exhibits that generate additional revenue streams, great excitement and generate tourism.

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## **Rochester Tooling and Machining Foundation**

**Project Name:** Precision Jobs for American Manufacturers  
**Funding Request:** \$310,000  
**Address:** 2485 West Henrietta Rd. Rochester, NY 14623

### **Project's Description**

The project will encompass an array of activities focused on creating awareness in the community of unfilled career opportunities in the tooling and machining industry. The intention is to facilitate personnel placement as one of those activities. It will also provide training resources to companies which require continuous training of its employees to stay competitive.

### **Project's Benefits**

Strengthening the manufacturing sector which generates tax revenue to the federal government.

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## **Rochester Regional Community Design Center**

**Project Name:** Operating Expenses  
**Funding Request:** \$50,000  
**Address:** 1115 E. Main Street, Rochester, New York 4609

### **Project's Description**

The RRCDC is requesting funding of \$50,000 for each of the next two years to help cover on-going expenses for operating and project costs in order to continue making design assistance and predevelopment phase planning available. These dollars are needed to help pay for staff time and materials related to projects which include citizen-based planning sessions, educational programs including training and presentations and drawings and plans produced to be used to implement strategies for healthy and sustainable communities. To keep our costs affordable and provide assistance the RRCDC subsidizes project costs with funds from public and private sources including local and state and federal government, foundations and corporate and individual donations and in kind contributions of time and materials.

### **Project's Benefits**

The RRCDC facilitates projects that incorporate good design and thoughtful planning that result in healthier more sustainable communities. The standards for good urban design supported by the RRCDC directly dovetail with federal responsibilities for health and safety, prudent use of resources, civic engagement and sustainable and green practices. Communities that support and incorporate quality design and planning make good use of their resources and the resulting improvements serve as a catalyst for economically viable livable communities that are sustainable. Positive outcomes include increased tax revenues, prudent use of resources

respectful of good environmental conservation, investment and public private partnerships in development and improvement of infrastructure, improvement in health and safety for citizens.

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### **Roswell Park Cancer Institute**

**Project Name:** Advanced Cancer Genome Institute Equipment  
**Funding Request:** \$2,500,000  
**Address:** Elm & Carlton Streets, Buffalo, New York 14263

### **Project's Description**

Roswell Park Cancer Institute is seeking funds to develop an Advanced Cancer Genome Institute: a world-class program for the early detection, prognosis and treatment of cancer and other diseases through the establishment and use of cutting-edge genomics instruments and techniques that identify new cancer-related genes and that develop new anti-cancer drugs. Through an affiliation with the Department of Defense funded National Functional Genomics Consortium (NFGC), which fosters high-level collaborations in cancer genomics and proteomics, our research will benefit cancer sufferers throughout New York State and the U.S. The technical enhancements requested would produce the largest and most advanced cancer genomics and drug development facility in New York State, thereby increasing the chances for new federal research grants – and new jobs- at Roswell Park, SUNY-Buffalo and the Center of Excellence at the Buffalo-Niagara Medical Campus.

This initiative will enhance our ability to:

- Discover new cancer- or disease-related gene targets,
- Identify diseases in very early stages,
- Predict which patients will likely progress to disease malignancy,
- Identify people with increased risk of cancer, and
- Develop novel rationally-designed drugs that target cancer- or disease-specific pathways.

### **Project's Benefits**

The Advanced Genomics Program at Roswell Park will provide expertise and training in the use of genomics and rapid drug development technologies for investigators from the Department of Defense and other government agencies focused on emergency health threats. Moreover, in the event of emergency health threats, our facilities can be adapted rapidly to help identify pathogenic agents and to develop therapeutic agents.

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## **Second Chance Ministries Community Development**

**Project Name:** Second Chance Residences Construction  
**Funding Request:** \$1,500,000  
**Address:** 381 East Ferry Street Buffalo, New York 14208

### **Project's Description**

The project for which funding is requested is the Second Chance Residences. The Second Chance Residences is the first step, or Phase One, in the creation of the vision for a therapeutic community that will serve women who are homeless, have health issues and/or are presently in or have been in recovery for at least one year. When all phases of the project are complete, it is expected to be bounded by E. Ferry Street, Roehrer Avenue, Woodlawn Avenue and Dupont Street in the City of Buffalo.

The need for the project was discovered by one of SCCDC's partners, GROUP Ministries, Inc. (GMI), which has been serving the targeted population for the past 5 or 6 years. GMI realized how difficult it was to secure adequate housing for those who came to the agency in need of that type assistance and how difficult it was, and is, to help them live down the stigma and decimation attached to the issues with which they are living. SCCDC and GMI recognized the need to create a therapeutic community because each realized it would help tremendously with the effort to diminish, if not eradicate, the problems faced by those women. The total project consists of the acquisition of property, the demolition of some buildings and the construction of new townhouses and rehabilitation of some existing buildings. SCCDC has the rights of first refusal on the property it needs for the project, community support and the support of its local politicians, clergy and businesses. All see the Second Chance Residences as an asset to the community.

This request is for construction. The programmatic activities that will be carried out in the facility are the housing of homeless women, women with health issues and/or women presently in or have been in recovery for at least one year and the preparation of those women for jobs and reentry into the broader community.

### **Project's Benefits**

The project's benefit is it will serve a common good by providing safe and dignified housing to those not able to advocate for themselves and who have been relegated to substandard living conditions. The federal government has the responsibility to protect all of its citizens, which this project will do, and the local measurable improvement and outcome will be the development of disparaged land and the contribution to the revival of a community.

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## Shea's Performing Arts Center

**Project Name:** Interior Restoration  
**Funding Request:** \$1,000,000  
**Address:** 646 Main Street, Buffalo, NY 14202

### Project's Description

The project is "The Interior Restoration of Shea's Buffalo Theatre." This project focuses on the restoration of the theatre ceiling, proscenium and wall restoration for which virtually no *historic* restoration work has been performed on the interior of the theatre proper. Plaster has fallen as a result of water damage and stress fractures. The ceiling has at least one (1) eight foot (8') crack which has been temporarily repaired. There is evidence of structural instability with the catwalk system which is used by our maintenance staff and is necessary for special rigging required for some major Broadway shows. *SHPO guidelines* will be followed as these areas are restored to their original condition with regard to color, shape and size. Wooden catwalks would be replaced to meet current OSHA safety codes and pipe insulation containing asbestos materials will require removal on a spot by spot basis.

Further, due to changes in ADA requirements, HIPPA laws, and advances in on-site medical treatment, the current emergency treatment room is outdated and does not provide adequate patron services. The restroom facility is non-accessible to patrons in wheelchairs and/or those requiring assistance to use the restroom (i.e. there are no installed handrails and currently no space for such accommodations).

The First Aid Station would be enlarged by incorporating an unused area immediately outside the current space. The redesign would allow for two private treatment stations, a handicap accessible restroom and washbasin. *SHPO guidelines* will be followed in keeping with historic preservation standards.

Completion of this project is one-time expense and costs include all work required by outside entities.

### Project's Benefits

This restoration project will ensure the physical future of Shea's, a well organized and respected National Historic Site. Support of this project by the federal government enables Shea's to restore the interior of the theatre as required by *SHPO guidelines* and meet current *OSHA safety codes*.

Shea's is vital to the revitalization of downtown Buffalo and significantly influences local economy. A recent study commissioned by The American League of Theatres and Producers showed that Touring Broadway (Shea's core programming) resulted in a 51 million dollar economic benefit to the Buffalo/Niagara Region in the 2004-2005 season alone. Based on this study we believe that the economic impact of our total programming is \$80 million annually.

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## **Theodore Roosevelt Inaugural Site Foundation**

**Project Name:** Transforming the Visitor Experience  
**Funding Request:** \$150,000  
**Address:** 641 Delaware Avenue, Buffalo, NY 14202

### **Project's Description**

“Transforming the Visitor Experience” transforms the way the story of Theodore Roosevelt’s inauguration, presidency, and continuing relevance are presented at the Theodore Roosevelt Inaugural National Historic Site. While preserving the integrity of the landmark Wilcox Mansion and the history it houses, this project incorporates 21<sup>st</sup> century technology to enliven exhibits and interactive displays. Docent training, school programs, ongoing evaluation, and marketing are all key components of the project. This project is Phase Two of a \$2.6 million construction project that is upgrading the Wilcox Mansion and adding a 4,500 sq. ft. carriage house addition.

While a guided tour will remain the core of the first floor experience, interactives, audio, video, and a “storytelling” approach will transport visitors back to the drama of September, 1901. The orientation room will welcome visitors to the sights and sounds of the Pan-American Exposition, offering an opportunity to explore the excitement and tragedy of the fair through original Edison films, artifacts, music and video. In the historic rooms, visitors will follow Roosevelt’s arrival in Buffalo and the challenges and issues he faced while residing in the Wilcox home for seven days. The Wilcox library will bring the inauguration to life through thoughtful interpretation by experienced docents and a moving audio reenactment of the inauguration. On the second floor, visitors will self-tour through interactive exhibits exploring the impact of Roosevelt’s presidency on the nation and the world, as well as its continuing relevance to our lives today.

This request is for one-time funding to support the overall project, especially the fabrication and installation of several key exhibit components.

### **Project's Benefits**

The project supports the Theodore Roosevelt Inaugural Site Foundation’s stewardship role as the managing partner of a unit of the National Park Service. The NPS provided critical funding for the Phase One construction project as part of the TR Foundation’s capital campaign. The TR Foundation is raising additional funds for the education initiative.

Locally, in conjunction with construction project additions and upgrades that introduce universal access and new visitor amenities, the project will position the Site to welcome a larger and more diverse audience including students, families, scouts, history buffs, seniors and tourists. The Site will also have the capacity to play an expanded role in regional heritage tourism initiatives, supporting a key WNY economic stimulator.

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## **University at Buffalo, State University of New York**

**Project Name:** Traumatic Brain Injury Rehabilitation Program  
**Funding Request:** \$1,000,000  
**Address:** 501 Capen Hall, Buffalo, NY 14260-1629

### **Project's Description**

This one-time funding request is for the Ross Eye Institute (REI) Traumatic Brain Injury Vision and Reading Rehabilitation Program for needed state-of-the-art equipment. This technology is integral to research as well as patient care. The equipment we propose to acquire for the REI will facilitate ocular blood flow measurements; corneal mapping by surface topography, analysis of thermal activity and cell function; determination of brain function; real time imaging of infant retinas, as well as proteomics and genomics research. This technology will inform our research activities and help define the future of eye care.

This request will contribute to UB's work on the SUNY Traumatic Brain Injury Vision & Reading Rehabilitation Program, a collaboration with UB's Ross Eye Institute and SUNY Optometry. Researchers at the SUNY College of Optometry and the Ross Eye Institute at the University of Buffalo established an interdisciplinary research program for vision and reading rehabilitation for individuals suffering from traumatic brain injury (TBI), with special emphasis on current military personnel and U.S. veterans having received either combat-related or general head injuries.

### **Project's Benefits**

This proposal benefits DoD with a special emphasis on current military personnel and U.S. veterans having received either combat-related or general head injuries. No such comprehensive, vision-based clinical and research program exists in the United States. In the current Iraq and Afghanistan wars, there have been at least twice as many individuals (nearly 15,000 head injuries incurred thus far) surviving serious head injuries relative to the Vietnam War and while those with serious head injuries have escaped with their lives, they will have residual effects of TBI, including those manifesting with the visual system.

### **Organization's Mission**

The University at Buffalo is a non-profit, premier research-intensive public university, a flagship institution in the State University of New York system that is its largest and most comprehensive campus. UB's more than 28,000 students pursue their academic interests through more than 300 undergraduate, graduate and professional degree programs. Founded in 1846, the University at Buffalo is a member of the Association of American Universities.

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## University of Rochester

**Project Name:** Inertial Confinement Fusion Program  
**Funding Request:** \$72,861,000  
**Address:** 250 East River Road Rochester, New York, 14623-1299

### Project's Description

The ICF program and high-energy-density physics program are key elements in the Department of Energy's (DOE) National Ignition Campaign and Stockpile Stewardship Program. The OMEGA laser facility is the principal laser research facility for the University and three National laboratories. LLE trains graduate students in inertial fusion.

Established in 1970 as a center for the investigation of the interaction of intense radiation with matter, LLE has the five-fold mission: **(1)** To conduct laser-fusion implosion experiments in support of the National Inertial Confinement Fusion program; **(2)** To develop new laser and materials technologies; **(3)** To provide education in electro-optics, high-power lasers, high-energy-density physics, plasma physics, and nuclear fusion technology; **(4)** To conduct research and development in advanced technology related to high-energy-density physics; and **(5)** To operate the National Laser Users' Facility. The LLE program is the only ICF and HEDP program that has been jointly supported by the Federal government, State government, industry, utilities, and a university.

The primary mission of LLE's research is to support the National Ignition Campaign (NIC) using the OMEGA and OMEGA EP lasers as well as validate advanced concepts for ICF to be used on the National Ignition Facility in order to demonstrate ignition and energy gain. DOE proclaimed that OMEGA is needed to meet mission-critical requirements for ignition on NIF, and to conduct experiments, in collaboration with the National laboratories.

### Project's Benefits

Thermonuclear fusion is the process by which nuclei of low atomic weight such as hydrogen combine to form higher atomic weight nuclei such as helium. Two isotopes of hydrogen, deuterium (composed of a hydrogen nucleus containing one neutron and one proton) and tritium (a hydrogen nucleus containing one proton and two neutrons) provide the most energetically favorable fusion reactants. In the fusion process some of the mass of the original nuclei is transformed to energy in the form of high-energy particles. Energy from fusion reactions is the most basic form of energy in the universe; our sun and all other stars produce energy by thermonuclear fusion reactions.

Fusion is the process that gives thermonuclear weapons their awesome power. The most significant *long-term* potential commercial application of fusion is the generation of electric power. In the *near term*, the inertial fusion program is essential to the Nation's quest to achieve ignition on the NIF and the science-based stockpile stewardship program administered by the National Nuclear Security Administration. *Fusion* does not generate nuclear waste nor does it enhance nuclear proliferation concerns in contrast to nuclear *fission* reactors currently in use. The

fuel for fusion, which occurs naturally in water, is essentially inexhaustible. To initiate fusion reactions, the fuel must be heated to tens of millions of degrees. Two approaches are being investigated to demonstrate controlled fusion: magnetic confinement fusion and inertial confinement fusion. Inertial confinement fusion involves the heating and compression of a small spherical target containing fusion fuel by the action of intense laser or particle beams to thermonuclear temperatures, making “ignition” possible. Ignition is the process whereby a self-sustaining propagating fusion reaction (thermonuclear burn wave) occurs, producing more energy than was used to bring the target to fusion conditions. The achievement of fusion ignition is a national grand challenge. A demonstration of ignition in the laboratory expected on the National Ignition Facility (NIF) is a prerequisite to the commercial production of electricity using thermonuclear fusion. Ignition is also essential for the success of the Nation’s stockpile stewardship program to assure the reliability and functioning of the stockpile in the absence of underground testing.

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### **University of Rochester**

**Project Name:** Integrated Energy Systems Center  
**Funding Request:** \$5,000,000  
**Address:** 250 East River Road Rochester, New York, 14623-1299

#### **Project’s Description**

The Center and the facility will require a minimum investment of \$10,000,000. At completion the University will have several thousand square feet of dedicated and renovated state-of-the-art lab space devoted to Integrated Energy Systems research and development. Major capital expenditures will include prototyping production line systems for integration of optical systems, photovoltaic materials, nanotechnology and fuel cell components in various unique combinations.

#### **Project’s Benefits**

**Leverage Synergy:** The Rochester effort is complementary to efforts at other research institutions in NY State such as the Energy Research Institute at RPI which stresses biomass, smart lighting and specific renewable energy technologies. Upstate New York is the home to more than 50 companies that work on renewable energy sources and the University of Rochester effort is a clear complement to the partners involved in the Upstate entrepreneur network RENEW New York. URIESC researchers have partnerships with local companies such as GM, Kodak, SiMPore and the Gradient Lens Corporation. URIESC will fully leverage the new, federally funded nanosystems center URinc by exploiting investments in nanofabrication technology and metrology.

**Workforce Development:** The URIESC initiative will be a powerful contributor to the training of the next generation energy workforce. As a partner to the Energy Research Institute developed as part of the University’s strategic planning process, UREISC will provide a unique

training facility for a master's degree program aimed at converting students from a variety of undergraduate science and engineering programs into energy experts: leaders broadly trained in the science, technology and economic entrepreneurship of energy generation technology.

**The need:** The Center and the facility will require a minimum investment of \$10,000,000. At completion the University will have several thousand square feet of dedicated and renovated state-of-the-art lab space devoted to Integrated Energy Systems research and development. Major capital expenditures will include prototyping production line systems for integration of optical systems, photovoltaic materials, nanotechnology and fuel cell components in various unique combinations.

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### University of Rochester

**Project Name:** Center for Neurotrauma Research  
**Funding Request:** \$6,000,000  
**Address:** 250 East River Road Rochester, New York, 14623-1299

#### Project's Description

By integrating multiple leading efforts on the treatment of traumatic injury to the nervous system, funding this project will enable development of potentially transformative interventions for these afflictions. This project brings together international leaders in the development of cell replacement therapies in the nervous system (UR, Drexel, Univ. Colorado Health Sciences Center) employing new approaches that have yielded dramatic improvements in experimental models of traumatic injury. These groups are leading figures in the replacement of cells lost to nervous system damage, and are teamed with a UR neurosurgeon with both research experience and battlefield experience in Iraq.

Complementary to cell replacement is the identification of novel pharmacological interventions that prevent cell death that can reduce damage by themselves and also can increase the efficacy of cell replacement therapies. In addition, collaborations with Burke/Cornell Weill Medical Research Institute are identifying pharmacological interventions that stimulate neural plasticity after nervous system injury, enabling damaged neurons to create new connections. The enhancement of neural plasticity provides an approach that again synergizes with reducing cell death and with replacing damaged cells. All of these approaches are partnered with the development of enhanced robotics approaches to physical rehabilitation and development of virtual reality interventions that have applications in both cognitive evaluation and retraining. Thus, all therapies will be rationally integrated in combinations that will synergize to yield levels of recovery that cannot be obtained with single interventions. Finally, UR effort in the discovery of enhanced diagnostics for individuals suffering from traumatic injury will enable more effective prediction of the potential for recovery, individualized assignment to treatment strategies and quantitative assessment of the interventions that are integrated in this effort.

## **Project's Benefits**

Traumatic injury to the nervous system is a major medical issue among war fighters. Traumatic injury to the brain has been reported in as many as 15% of infantry soldiers during a year-long deployment in Iraq, while traumatic damage to the spinal cord is a common and serious battlefield injury.

Injuries to the nervous system are often associated with devastating, long-lasting sequelae that may affect cognitive, motor and sensory function – leading to a need for lengthy or even permanent medical support. The complex nature of brain and spinal cord trauma, and the multiple functional deficits that can result creates a need for an integrated systems approach to comprehensively address the medical needs posed by traumatic injury to the nervous system.

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### **University of Rochester**

**Project Name:** Center for Health Care, Safety and Quality  
**Funding Request:** \$500,000  
**Address:** 250 East River Road Rochester, New York, 14623-1299

## **Project's Description**

The University proposes the creation of a Center for Health Care Safety, Quality, and Outcomes Measurement and Innovation to rigorously address safety, quality, and outcome concerns in Rochester as well as nationally. The Center, located in the School of Nursing, but serving as a resource to University of Rochester Medical Center and the community, could dramatically increase the speed with which the tools and technology of outcomes measurement are developed, evaluation practices are learned, and innovations are implemented and evaluated.

The Center will serve as a much needed resource for the education, measurement, and application of outcomes research and the determination of practice innovation impact on outcomes. Specifically, the Center will bring together faculty, clinicians, administrators, students and staff for the purposes of: 1) generating knowledge concerning the impact of care delivery processes on individual, organization, and community outcomes; 2) developing and testing innovative approaches to care. For example, health care, like other fields, is confronted with new technology options for communication among workers and with patients. These new communication and information processing systems, however, need expert input at the conceptual and operational level if they are to be used optimally. The Center will be the place where they are developed, their validity and feasibility assessed, the knowledge gained disseminated and translated into clinical practice initiatives.

The University will create the Center for Outcomes Measurement and Practice Innovations to develop, evaluate and implement evidence-based practices and technology that will improve the quality and safety of health care delivery in Rochester and beyond.

## **Project's Benefits**

The culture of interdisciplinary collaboration within the Medical Center supports utilization of the Center as a resource for all involved in health care. The interdisciplinary discourse that will be enhanced and the innovations that will emerge and be tested will place the needs of patients and consumers as central.

There are approximately 200 Baccalaureate, 150 Masters, 50 doctoral students learning to provide, coordinate, supervise, administrate, create, and study nursing and health care delivery. Enhancing the culture of safety, quality, and outcomes and providing educational experiences that will allow students and trainees to learn state-of-the art tools and technology for promoting and measuring safety, quality, and outcomes as well as to create them for the emerging health care environment will have an untold impact on the field. Once the infrastructure is developed, and the structure is in place to provide education and consultation, the Center is expected to be able to be maintained with modest funds.

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## **University of Rochester**

**Project Name:** Edward G. Miner Library Renovation  
**Funding Request:** \$1,500,000  
**Address:** 250 East River Road Rochester, New York, 14623-1299

## **Project's Description**

The renovation responds to changes in user expectations, the medical school curriculum and recent developments in medicine, fluid accessibility and use of information, and in delivery of fundamental library services.

The project will:

- Reconfigure space to improve the user experience and ease of use of the library as a whole, including improved access and facilities for customers with disabilities.
- Provide a more flexible, technologically integrated environment.
- Make technology easily and quickly accessible upon entering the library but ensure the human experience is more prominent.
- Refurbish the library's main reading room which is the original main lobby of Strong Memorial Hospital, completed in 1925.
- Upgrade or replace aging, unreliable, and inadequate heating, ventilation, cooling, and electrical/lighting systems.

## **Project's Benefits**

The Library facilities were last renovated in 1987. There is no other academic medical center library in the U.S. that was renovated as long ago as 21 years; 70% have been renovated in the past three years. Greater efficiency is a primary focus of this project allowing an increase in one-



on-one service to customers and the ability to conveniently access the full scope of library services.

In addition to serving the information needs of faculty, staff, students and patients of Eastman Dental Center, School of Medicine and Dentistry, School of Nursing, Strong Memorial Hospital, and University Medical Faculty Group, the library also serves as a resource for the community and the eleven county area surrounding Rochester. This service will be greatly enhanced by the library's renovation. It is a shared resource, an agent of scholarly communication, a technology center, and a focal point for learning and teaching,

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### **Urban League of Rochester**

**Project Name:** Jefferson Avenue Renewal & Revitalization  
**Funding Request:** \$100,000  
**Address:** 265 North Clinton Ave, Rochester, NY 14605

#### **Project's Description**

ULR offers many services to the business owners along Jefferson Avenue. We provide education and consulting for business start-up, development, and retention through intensive workshops and one-on-one technical assistance.

Program curriculum and technical support are provided by staff and/or a number of business consultants with a wide range of expertise. The training is provided in the neighborhood through monthly classes and we offer each client 9+ hours of individual Technical Assistance. We also assist individuals with the application process for State certification as a Minority and/or Woman-owned business.

In addition to services offered in the neighborhood, participants can attend our annual 60-hour Business Planning Workshop Series (and any other training at our downtown offices).

We serve minorities, women, dislocated workers, economically disadvantaged and individuals with disabilities who seek to start a business, are already starting their own businesses or are early stage firms (businesses already existing, less than five years), as well as those who currently own a business that is either looking to expand or receive additional business development training.

#### **Project's Benefits**

The ULR's project is a part of a larger plan to revitalize a once-thriving neighborhood, to work along with the community, not displace it. Certain obvious benefits are clear: to assist the existing merchants to survive, to grow and thrive and to bring in more businesses that will, most importantly, support its residents. Simply put: we project that we will assist the community to

realize their vision to bring in viable new businesses, to help more businesses survive and grow, which will in turn expand the tax base and lower the unemployment rate.

### **Project's Location**

The Project is headquartered at ULR main offices (265 N. Clinton) with weekly hours at the Trinity Emmanuel Church office on Jefferson Avenue, every Tuesday afternoon. Most classes are and will be offered there as well. Internet- and/or computer-based courses must be offered in a computer training room at 265 N. Clinton Ave.

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### **City of Buffalo**

**Project Name:** TraCS Equipment  
**Funding Request:** \$600,000  
**Address:** City Hall, 65 Niagara Square, Buffalo, NY 14202

### **Project's Description**

One-time funds are requested to purchase "TraCS" equipment for the Police Department to replace an outdated manual traffic and criminal reporting system with an efficient, technology-based one. Currently, police officers manually input traffic accident, summons, and crime reports. This process is labor intensive and inefficient. It significantly reduces the time officers spend on patrol, places single-officer patrols in jeopardy, unnecessarily delays motorists, and results in outdated data information and management systems that impede the effectiveness of law enforcement agencies.

An automated system – through the use of mobile computers that can employ high-speed wireless "air cards" – enables officers to input critical field information in an efficient and uniform manner. Officers would merely scan a driver's license and vehicle registration rather than handwriting information for reporting and cross-analysis purposes. It also allows the Police Department to instantly access information and track the exact location of patrol vehicles, thereby improving officer safety and dispatch response times.

The average cost for outfitting a police vehicle with TraCS capability is approximately \$3,600. While some vehicles currently have the ability to run this interface, 200 vehicles do not.

This project will dramatically improve overall law enforcement capabilities. Reducing the time officers spend filling out paperwork provides that much more time for routine patrols and incident response. It will empower front-line police officers and augment their ability to conduct instant checks on driver violations, vehicle history, and criminal background checks. It also complements state and federal law enforcement practices through enhanced data sharing.

## **Project's Benefits**

Funds are requested to implement an automated traffic and criminal reporting system within the City of Buffalo's Police Department. Significant reductions in federal JAG funds from FY2007 (\$446,676) to FY 2008 (\$150,345), leaves the City unable to make significant upfront capital investments in projects that will ultimately yield long-term savings and enhance law enforcement capabilities amongst law enforcement agencies.

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## **City of Buffalo**

**Project Name:** Community Asset Mapping System (Program)  
**Funding Request:** \$150,000  
**Address:** City Hall, 65 Niagara Square, Buffalo, NY 14202

## **Project's Description**

To undertake a model community asset mapping system to identify skill levels in the City's disadvantaged areas and design and implement a best fit training program to fill a spectrum of employment opportunities at the Buffalo Niagara Medical Campus.

Asset mapping is the process of cataloguing a community's resources. This may include inventorying individual skills, community groups, and local institutional assets. Information can then be mapped and used for such initiatives as creating awareness of local resources and services; improving access to public facilities and assistive services; and increasing employment opportunities.

The Mayor's Office, working collaboratively with the Buffalo Employment and Training Center (BETC), will develop a system to identify work-readiness skill levels of residents in targeted areas. Information will define a "best fit" training program and then be disseminated through workforce development partners, which also include the Community Action Organization, the State Department of Labor, SUNY at Buffalo, Erie Community College, and the Equal Opportunity Center.

The program will leverage the capacity of existing organizations. The City's Department of Management Information Systems will create a community organization registry web-form on Buffalo's website that will allow volunteer organizations and associations to self identify for participation in this initiative.

This initiative will focus on employment at the Buffalo Niagara Medical Campus. The City will, where applicable, prescreen residents for referral to available jobs and envisions this partnership being able to employ at least 200 individuals in coming years. Positions are expected to range from service and custodial staff to scientists and doctors.

## **Project's Benefits**

This project will utilize mapping technology to inventory Buffalo's human, institutional, and economic assets and resources in disadvantaged neighborhoods to assist with filling various employment opportunities at the Buffalo-Niagara Medical Campus Community Training Center. Federal funds are necessary to front-load extraordinary costs that will yield long-term economic and social service benefits. This program can serve as a model for other jurisdictions who are also experiencing rising unemployment rates as the current economic recession deepens.

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### **City of Buffalo**

**Project Name:** Community Asset Mapping System (Facility)  
**Funding Request:** \$400,000  
**Address:** City Hall, 65 Niagara Square, Buffalo, NY 14202

## **Project's Description**

Funding is requested to design and construct a workforce development center. There are two sites at the Buffalo-Niagara Medical Campus under final consideration. The City is working closely with the University of Buffalo to select either the historic UB Downtown Gateway or the historic Trico Building located.

An important programmatic component of this effort will be initiating a community asset mapping project. Asset mapping is the process of cataloguing a community's resources. Buffalo's project will identify skill levels in targeted communities suffering from poverty or high unemployment rates and disseminate a best fit training program with an initial focus on filling a spectrum of employment opportunities at the Medical Campus. It will commence in March 2010 and continue through June 2011.

The Mayor's Office will also work collaboratively with the Buffalo Employment and Training Center (BETC) to disseminate work-readiness information throughout the community through workforce development partners. In addition to BETC, these partners include the Community Action Organization, N.Y. State Department of Labor, State University of New York at Buffalo, Erie Community College, and the Equal Opportunity Center. Where applicable, BETC will prescreen City residents for referral to available employment opportunities and envisions that partnership being able to employ 200 individuals in coming years.

In the future, the Center will be used to leverage the capacity of partnered organizations and promote jobs beyond the Medical Campus. Either building offers real beneficial use opportunities – both in preserving and restoring parts of Buffalo's history and in promoting economic revitalization today.

## **Project's Benefits**

The Community Training Center is needed to promote employment opportunities, particularly for residents in distressed communities, and help identify and match residents with a network of prospective employers. Community and economic development programs will be centralized in one location to leverage Buffalo's public and private resources.

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## **City of Buffalo**

**Project Name:** Extending Allen Street  
**Funding Request:** \$1,000,000  
**Address:** City Hall, 65 Niagara Square, Buffalo, NY 14202

## **Project's Description**

Federal funding is requested to extend Allen Street, near the Buffalo-Niagara Medical Campus, across Main Street and through the Metro Rail station to Ellicott Street. This project would connect the Medical Campus to both Allentown and the Fruit Belt while facilitating east/west connections. Funding would yield improvements in both vehicular and pedestrian safety/mobility, connect the campus to the neighborhood, encourage increased Metro ridership, and support redevelopment efforts.

This City's Master Plan includes this project to eliminate a physical barrier between the Medical Campus and the historic Main Street/Allentown district. City planners will introduce transit-friendly design elements to encourage public transit, pedestrian, and bicycle travel as an alternative to vehicles. Transit-oriented development will be a key component in establishing a common address for the medical campus, enhancing an open space network, and fostering a greater sense of community.

This expansion project will also promote Metro ridership at the nearby Allen-Medical Campus light rail station for neighborhood residents, patients, and employees. The Buffalo-Niagara Medical campus consists of several large employers and currently employs approximately 6,000 people. That figure is expected to grow to 8,000 in coming years with facility expansion projects, representing a largely untapped market to improve ridership for the City's transit system.

The Allen Street project is self-contained. City planners project it will be completed within 18 months of design start, and that no additional Federal funding will be needed. The \$1 million budget involves design, construction, and inspection work and will create dozens of local construction jobs.

## **Project's Benefits**

Funds are necessary to assist the City with design and construction work of needed improvements near the Buffalo-Niagara Medical Campus.

The project will improve the efficiency of the local transportation system, provide greater vehicle and pedestrian safety measures, ensure efficient access to a growing job center, and connect the Medical Campus to its neighborhood to further community development.

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## **City of Buffalo**

**Project Name:** Mayor's Summer Reading Challenge  
**Funding Request:** \$100,000  
**Address:** City Hall, 65 Niagara Square, Buffalo, NY 14202

## **Project's Description**

Funds are requested to expand the Mayor's Summer Reading Challenge literacy initiative for Buffalo's youth in grades 1-9. Nearly 1,300 students successfully completed the challenge last year – compared to 38 in 2001 when the initiative began – to both read at least seven books throughout the summer and complete written summaries for each. These students were eligible to receive scholarships and other prizes. If further expanded, the program will advance targeted youth literacy and development, and help increase Buffalo student achievement scores on State standardized tests.

Additional resources are particularly needed to reach at-risk youth.

Summer literacy programs have become an increasingly practiced and proven means of encouraging reading during a time when many students experience learning losses – particularly those not engaged in any educational activities. This “academic gap” for at-risk and disadvantaged students can be most prevalent in elementary school years. Buffalo's program is designed to counter this by helping students retain and improve reading skills gained during the academic year in a fun and challenging environment. It is designed to enhance reading and critical thinking skills, improve overall vocabulary, and better prepare students for more challenging academic tests in the future.

Some studies have shown that students who do not read over the summer lose skills by fall. When it becomes a pattern throughout a child's early developmental years, the achievement gap is only further compounded and puts disadvantaged youth at risk of falling further behind, missing school days, and – in the worst case scenario – not completing their schooling.

## **Project's Benefits**

Summer youth literacy programs have become an increasingly practiced and proven means of encouraging reading during a time when many students experience learning losses – particularly

those not engaged in any educational activities. Federal funds have been used for similar programs in the past that aim to raise student achievement scores.

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### **City of Buffalo**

**Project Name:** Senior Citizens Service Center  
**Funding Request:** \$200,000  
**Address:** City Hall, 65 Niagara Square, Buffalo, NY 14202

#### **Project's Description**

Funds are requested to establish a comprehensive, wrap-around senior citizens service center in Buffalo's City Hall. The center would provide easy access to services to help this growing population remain healthy, well cared for, and actively employed. It would also serve as a one-stop resource for family members who may struggle with meeting the specialized needs for the elderly and their other daily responsibilities concurrently.

The nation's elderly population is projected to double over the next 30 years. This makes it imperative that policymakers plan now for how best to deliver supportive services for increased demands, seniors' preference to remain in their homes, and the likely need for public funding to assist those most in need as retirement savings are threatened due to the economic downturn.

The center will target the growing population of isolated seniors. The City, in collaboration with community partners, will undertake a comprehensive planning process to re-engage elders in their community, reduce social isolation, and better help seniors age in place.

Creating job opportunities will be a key focus. The center will also provide convenient access to services including health, recreational, social, and educational programs; volunteer activities, and transportation. Families will also be able to obtain information and referrals for services such as caregiver programs and instructional assistance, case management, and health programs. Staff will also be trained to identify any instances of senior abuse. Staff will provide direct assistance and/or intervention, seek to stabilize a senior's personal environment, and improve their quality of life.

#### **Project's Benefits**

The program will establish a one-stop center for Buffalo's growing population of senior citizens, particularly those isolated from services, and their families. It will improve quality of life for the City's seniors while re-engaging them in their community and providing volunteer and employment opportunities to supplement limited incomes.

The U.S. Department of Health and Human Services supports efforts to establish successful "aging in place" programs, given that the nation's elderly population is expected to double over the next 30 years.

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## City of Buffalo

**Project Name:** City's Offender Re-Entry Unit Expansion  
**Funding Request:** \$250,000  
**Address:** City Hall, 65 Niagara Square, Buffalo, NY 14202

### Project's Description

To expand the City's Offender Re-Entry Unit, formed to address the unique needs and challenges for individuals exiting correctional facilities. This Unit assesses individuals and provides transitional services needed in order to seek, obtain, and retain employment. Approximately 32 individuals per month currently benefit from this program, which has served 195 ex-offenders to date. The City hopes to expand the program and double those served.

Approximately 7,000 ex-offenders will return to the Buffalo area over the next two years. This large influx of at-risk persons into an economically depressed community is a challenge for local resources and programs. Preparing ex-offenders for limited opportunities will indeed be great; however, re-incarcerating ex-offenders is even costlier for the government, as well as their families, communities, and the overall economy. This program complements federal efforts that support ex-offenders intended to reduce recidivism.

The Buffalo Employment and Training Center Unit provides a spectrum of services. Funding will enable staff to assist habitual misdemeanor offenders in acquiring social services, provide career counseling, and offer educational development, vocational training and job placement, and retention services. BETC is ideally located due to proximity to the State Parole, treatment providers, and employment agencies; it is also a self-directed "one-stop" center.

Ex-offenders are assigned to case managers trained to best address, assess, and assist individuals that are uniquely challenged by their convictions, further compounded by low-level educational and vocational backgrounds for many served. BETC operates as a singular location providing linkages to state and federal government services.

### Project's Benefits

Funds are requested to expand the offender re-entry program at the Buffalo Employment and Training Center and include new programs and services to further improve transitional success rates. This program complements federal efforts that support ex-offenders with the intent of reducing recidivism.

A proven component towards this goal is an ability and capacity to provide counseling as appropriate, training where needed, and employment assistance services. This comprehensive approach, when applied at a practical level, can effectively reduce future strain on both local and federal law enforcement resources.



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## City of Niagara Falls

**Project Name:** Intermodal Transportation Center  
**Funding Request:** \$15,558,788  
**Address:** City Hall, 65 Niagara Square, Buffalo, NY 14202

### Project's Description

The City of Niagara Falls (County of Niagara) is seeking to develop and construct an archetypical land-border infrastructure in the form of the Niagara Falls International Railway Station & Intermodal Transportation Center. The intent is to create a rail centered multi-modal, multi-function transportation facility at the Whirlpool-Rapids International Bridge that coordinates passenger rail, freight rail, cross-border infrastructure, Department of Homeland Security Operations, local transit and surface transportation in the City of Niagara Falls.

### Project's Benefits

The project's comprehensive set of capital improvements and transportation enhancements is designed to: significantly improve operational efficiencies for Amtrak and federal law enforcement agencies; double the capacity for international freight movements and facilitate passenger rail transportation; maintain the integrity of the border; increase the safety of the traveling public as well as federal security personnel; instigate additional private re-investment that supports local tourism development goals; expand mobility; greatly enhance modal alternatives in the region including excursion-rail operations; increase transit ridership in a area of national environmental significance; reduce traffic congestion, air pollution, and fuel consumption, and thereby be protective of the human and natural environment.

This approved plan improves the safety and mobility of the traveling public, intermodal connectivity, dramatically increases international rail-freight capacity at the Niagara border crossing, bolsters regional economic development opportunities related to freight handling and logistics, and heightens local quality-of-life. In addition, it also significantly improves border security and federal law enforcement capabilities.

These objectives reflect the FHWA's National Strategic Plan goals, US-DOT's budget performance goals, and are consistent with SAFETEA-LU, Public Law (Pub. L. No. 109-59): § 1303 Coordinated Border Infrastructure Program (FHWA); § 9001 High-speed rail corridor development (FRA); § 9002 Capital grants for rail line relocation projects (FRA); Section 330 Program (FRA); § 5309 New Starts/Small Starts & Fixed-Guideway Modernization Programs (FTA); Rail and Fixed Guideway Modernization (FTA); Grants for Public Works and Economic Development (EDA), and; Amtrak Legislative Intent, as well as, the Department of Defense Appropriations Act, (Pub. L. No. 109-148): Inter-City and Passenger Rail Security System Grant Program; Port Security Grant Program; and/or the Transit Security Grant Program (DHS).

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## City of Rochester

**Project Name:** After-School Jobs Program for At-Risk Youth  
**Funding Request:** \$2,000,000  
**Location:** City Hall, 30 Church Street, Room 205A, Rochester, NY 14614

### Project's Description

The City of Rochester, NY requests \$2 million in federal funding to launch an After-School Jobs Program for At-Risk Youth. This program will provide after-school job training and employment counseling for Rochester high school students. During the initial two-year pilot period, the program will prepare 200 Rochester teenagers for employment, and place them in after-school jobs.

Rochester City Schools have the highest poverty rate among the big five school districts in New York State. Only 53-56% of high school students in the Rochester City School District graduate, and a mere 2% of 14-18 year-olds participate in Rochester After-School Academy programs. Funding is urgently required to ensure that youths have after-school opportunities to build desperately needed job skills and steer clear of criminal activities.

The After-School Jobs Program will help youths concentrate on developing the skills to successfully enter the workforce during the hours at which they are at the greatest risk of becoming caught up in criminal activity. Over the course of two years, the project will teach 200 teenagers general employment skills, as well as job training for their specific fields of interest. Partners in the local business community will help to place these students in jobs, so that they can begin to accumulate significant work experience while still in high school. Although this is a new program, it will build on Rochester's successful Providing Real Incentives to Maintain Employment (PRIME) program, which has helped the City place 120 workers in full-time jobs since July 2008.

### Project's Benefits

This project will provide job training and job placement services for 200 Rochester teenagers over two years. These students will be exposed to employment at a young age, making it easier for them to find and keep a job throughout their lives. The program will also take participating teenagers off the streets between the weekday hours of 3 pm and 6 pm, when youth crime rates are especially high. If funded, this project will make Rochester a safer place to live, while helping create a more promising future for its high school population.

### Project's Location

The project will be implemented in Rochester, NY.

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## **City of Rochester**

**Project Name:** Midtown Transportation Renovations  
**Funding Request:** \$2,400,000  
**Address:** 30 Church Street, Room 205A, Rochester, NY 14614

### **Project's Description**

The City of Rochester requests \$2,400,000 from the STP or TCSP appropriations account of the THUD bill to implement its Midtown Revitalization Transportation Infrastructure project. Federal funding is needed for new transportation infrastructure to support the revitalization of the old Midtown Plaza, including a new network of streets, pedestrian pathways, and other related transportation improvements. The City of Rochester, the State of New York and PAETEC Communications' public-private partnership to redevelop the old Midtown Plaza into a mixed-use urban space is an vital initiative projected to create or retain over 1,500 jobs and leverage more than \$200 million in new investment. The re-establishment of a street pattern through the site is a key component of the Midtown redevelopment plan. Multiple new streets are expected to be constructed on the site as part of the redevelopment. These new streets will directly intersect with three Urban Minor Arterials (East Main Street, South Clinton Avenue, and East Broad Street), one of which is on the National Highway System. Motorist and pedestrian safety will be closely considered in the design and construction of these busy downtown intersections. PAETEC expects to be completely moved into its new headquarters building by fall 2011. FY 2010 funding is needed to ensure that the transportation infrastructure improvements are completed in time to meet this ambitious schedule.

This request is for the construction of new transportation infrastructure, including a new network of streets, pedestrian pathways, and other related transportation improvements. This construction will support the Midtown redevelopment project.

### **Project's Benefits**

The project will support a major revitalization initiative in the old Midtown Plaza which is projected to create or retain 1,500 jobs and leverage more than \$200 million in new investment. The re-establishment of a street pattern through the site is a key component of this revitalization effort. Additionally, this project will increase motorist and pedestrian safety in the area.

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## City of Rochester

**Project Name:** Site Preparation for Midtown Renovation  
**Funding Request:** \$2,000,000  
**Address:** 30 Church Street, Room 205A, Rochester, NY 14614

### Project's Description

The City of Rochester requests \$2,000,000 from HUD Economic Development Initiative appropriations for demolition, remediation, and other site preparation for the Midtown Plaza Redevelopment Project. The City of Rochester is working hard to overcome the economic hardships imposed by the area's major job losses during the past decade. According to The Federal Reserve Bank of New York, Rochester is now the most economically distressed city in Upstate New York. A key component of Rochester's revitalization strategy is the revitalization of the old Midtown Plaza in the heart of downtown. In October 2007, the City of Rochester, the State of New York and PAETEC Communications announced a major public-private partnership to redevelop the old Midtown Plaza into a mixed-use urban space. This major redevelopment project will bring much-needed jobs, revitalization, and new vibrancy to downtown Rochester. The project is projected to result in the creation/retention of over 1,500 jobs and leveraging of more than \$200 million in new investment. The Midtown redevelopment project will require significant public investment to ready the site for redevelopment. Specifically, about \$90 million is needed for property acquisition, demolition, remediation, relocation, and infrastructure. The State of New York has committed \$65 million to the effort. However, federal assistance will be needed to ensure that the Midtown revitalization is a success.

Federal funding will be used for demolition, remediation, relocation and infrastructure.

### Project's Benefits

The project will help reverse the financial and physical deterioration of Midtown Plaza which has had a negative impact on the downtown area, contributing to the loss of hundreds of jobs and significant tax revenue. PAETEC, one of the nation's largest and fastest growing telecommunications companies, plans to build a new 500,000 square foot, Class A facility on a portion of the Midtown property. The facility will serve as the new location for the company's corporate headquarters, as well as a home for its data management and other operations. This project is projected to result in the creation/retention of over 1,500 jobs and leveraging of more than \$200 million in new investment.

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## **City of Rochester**

**Project Name:** Durand Eastman Beach  
**Funding Request:** \$950,000  
**Address:** 30 Church Street, Room 205A, Rochester, NY 14614

### **Project's Description**

The City of Rochester requests \$950,000 from the U.S. EPA State and Tribal Assistance Grants account in the FY 2010 Interior and Environment Appropriations Bill for its Durand Eastman Park Beach Water Quality Improvement Project. The funding requested will be used for the implementation of water quality improvements for the Camp Eastman and Sherry Swamp tributaries. These tributaries are the focus of water quality and stormwater diversion and treatment initiatives because they contribute to much of the polluted runoff water present in Durand Eastman Beach, and because they are located closest to the proposed bathing beach alternative locations. The plan to address pollution from the tributaries will involve use of the low flow Smart Sponge Filter Treatment. This method consists of filter material being treated with an organosilane derivative that has been widely used in antibacterial applications. The agent is registered with the U.S. Environmental Protection Agency for a variety of applications and has a proven performance record specifically in cases where a reduction in harmful bacterial counts in storm water runoff is desired.

This request is for the design and construction of water treatment filters. This treatment will take place at the Camp Eastman and Sherry Swamp tributaries to make the beach safe for swimmers.

### **Project's Benefits**

Located on the coast of Lake Ontario in the City of Rochester, Durand Eastman Park Beach is a natural sand beach, approximately one mile long. This popular recreational area was officially closed for swimming from 1967 to 2006 due to poor water quality. However, in the summer of 2006 the City obtained a temporary permit to reopen a swimming area at the beach on the condition that water quality be constantly monitored to ensure the safety of swimmers. Over 70,000 people used the beach last summer. In order for the beach to remain open permanently, the City must take steps to address the threat of run-off pollution in the area.

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## **City of Rochester**

**Project Name:** Zero Tolerance  
**Funding Request:** \$2,000,000  
**Address:** 30 Church Street, Room 205A, Rochester, NY 14614

### **Project's Description**

The City of Rochester requests \$2,000,000 from the Bureau of Justice Assistance (BJA) Edward Byrne Memorial Grants account in the FY 2010 Commerce, Justice, and Science Appropriations Bill to support the City's "Zero Tolerance" Anti-Crime Initiative. The "Zero Tolerance" initiative is a multi-faceted approach targeting police resources towards crime prevention details. It primarily consists of utilizing proactive, highly visible enforcement and engagement tactics in select areas of the City based on crime patterns. This includes establishment of a 24-hour command post; zero tolerance on curfews, probation violation, parole violation and DWIs; enhanced traffic violation checkpoints; enhanced road, park and expressway patrols, business inspection sweeps; and mandatory 12-hour police shifts. This program has made a drastic impact on the City's crime fighting efforts. In the 15 months since Zero Tolerance was first launched, homicides in Rochester have declined 20.6%, the number of shootings by 28.4% and the number of robberies by 14.4%. These numbers show the impact the program is having every day in the lives of Rochester's citizens. However, while the crime problem is temporarily contained, it has not been solved. Rochester still experiences an unacceptably high rate of violent crime, and federal funding is needed to ensure that this program can be sustained into 2010.

The program is ongoing and requires funding for its continued operation.

### **Project's Benefits**

Federal funding will be used to maintain and enhance the Mayor's "Zero Tolerance" Anti-Crime Initiative, with particular emphasis on intensifying the traffic and pedestrian patrol detail, improving the City's ability to track the movement of narcotics, providing technical support for the Police Department's staff, and enhancing local crime prevention programs for at-risk youth. In its short 15 month existence this program has already drastically reduced violent crime in Rochester, and with federal assistance it will continue to help make Rochester's citizens safe.

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## **City of Rochester**

**Project Name:** Rochester Harbor, NY  
**Funding Request:** \$1,000,000  
**Address:** 30 Church Street, Room 205A, Rochester, NY 14614

### **Project's Description**

The City of Rochester requests \$1 million from the Army Corps of Engineers Operation and Maintenance account in the FY 2010 Energy and Water Appropriations Bill to provide much-needed repairs and safety improvements to the Charlotte (west) and Summerville (east) Piers located in Rochester Harbor. Located on the western edge of Rochester Harbor, the 3,000 foot Charlotte Pier is a Rochester summer icon that attracts thousands of weekly visitors from across upstate New York for eight months of the year. According to the Army Corps of Engineers, the hand railings, concrete walkway and safety ladders on the pier are deteriorating, creating potential safety hazards.

Additionally, the Summerville or “east” pier has become a serious safety hazard for boaters. There have been several boating accidents at the pier during the past decade, including two last year with one resulting in deaths and serious injuries. The City requests federal assistance to make needed safety improvements and to enhance the recreational utility and performance of the two piers.

Specific elements of the City's request include the following:

- Improved navigation safety lighting and warning signs for both piers to be carried out under guidance of the U.S. Coast Guard;
- Repair and ensure the surface integrity of the concrete walkway on the West pier;
- Installation, repair or replacement of railings on both the East and West piers;
- Repair/replacement of accessible ladders along both sides of the west pier;
- Safety improvements including pier ladder replacements, basic lighting and stanchion repairs.

The funding is for the repair of the concrete walkway, the construction of new railings and ladders on the piers and an upgrade of navigation safety lighting and warning signs for both piers.

### **Project's Benefits**

The project will make the Charlotte and Summerville Piers safer for pedestrians and boaters. Failure to repair the pier will result in continued degradation, increased future maintenance costs and unsafe conditions for recreational users. In addition to providing needed improvements to public safety, the proposed enhancements will significantly improve the recreational value of the pier and help boost the local recreation based economy.

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## City of Rochester

**Project Name:** Jefferson Avenue Rehabilitation Project  
**Funding Request:** \$960,000  
**Address:** 30 Church Street, Room 205A, Rochester, NY 14614

### Project's Description

Funding is requested for the design and construction of improvements to Jefferson Avenue between West Main Street and South Plymouth Avenue. The road improvements will include curb bump-outs, improved landscaping, enhanced lighting, bicycle parking, repaired sidewalks, and pedestrian amenities such as benches and trash receptacles. The project is a one-time request, and will boost safety, especially for pedestrians. Additionally, enhanced street lighting will improve security in the area by increasing visibility and deterring drug and gang activity. Improvements to Jefferson Avenue will also ensure a more walkable and bikeable street through repaired sidewalks, new crosswalks, and bike racks to ensure multi-modal accessibility for all.

This request is for design and construction.

### Project's Benefits

Jefferson Avenue is part of the City of Rochester's Federal Renewal Community Zone, and the neighborhood includes a high concentration of low-income and minority residents. The planned streetscape enhancements will significantly advance the goals of this program by promoting job creation, crime prevention, and public transportation use for the residents of the neighborhood.

Jefferson Avenue is also an Urban Collector street on the Federal Highway Functional Classification System.

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## City of Rochester

**Project Name:** Energy Retrofits of Vacant Properties  
**Funding Request:** \$700,000  
**Address:** 30 Church Street, Room 205A, Rochester, NY 14614

### Project's Description

The City of Rochester requests \$700,000 in FY 2010 Department of Energy appropriations to implement its innovative Revitalizing Vacant Properties with Clean Energy Systems by conducting efficiency retrofits and upgrades. HOME Rochester is a unique collaborative approach to create homeownership and restore neighborhoods. The program acquires foreclosed, vacant houses and transforms them into fully renovated, owner-occupied homes. All



buyers obtain mortgages that comply with common-sense lending criteria. This collaborative effort has resulted in the sale of more than 400 renovated homes to low and moderate income first time home buyers at an average purchase price of \$61,500. The program has resulted in long-term stable home ownership with an extremely rare incidence of default.

Over the past year, Rochester has used a multi-stakeholder process to develop a series of green specifications for revitalizing these homes with clean energy systems and other sustainability features. Federal funding would enable the City to pilot an initiative to conduct energy retrofits of 100 single family units and to rehabilitate the homes according to the green specifications. The funding will be used to make desirable energy efficiency improvements that encourage sustainable building practices, enhance the quality and value of structures, and reduce long term costs for home owners. The initiative will reduce energy consumption, reduce utility costs for the first-time home owners, decrease greenhouse gas emissions and create dozens of new local jobs. In addition, it will create a model for other communities and the private sector seeking to revitalize vacant properties and promote sustainability.

This request is for funding to hire staff, retrofit 100 homes and evaluate the results upon completion.

### **Project's Benefits**

Federal funding will be used to make desirable energy efficiency improvements that encourage sustainable building practices, enhance the quality and value of structures, and reduce long term costs for home owners. The initiative will reduce energy consumption, reduce utility costs for the first-time home owners, decrease greenhouse gas emissions and create dozens of new local jobs. In addition, it will create a model for other communities and the private sector seeking to revitalize vacant properties and promote sustainability.

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## **City of Rochester**

**Project Name:** Broad-Lyle-Dewey Intersection Realignment  
**Funding Request:** \$1,664,000  
**Address:** 30 Church Street, Room 205A, Rochester, NY 14614

### **Project's Description**

The City of Rochester requests \$1,664,000 from the Surface Transportation Program or Transportation and Community and System Preservation account in the FY 2010 Transportation, Housing and Urban Development Appropriations Bill for its Broad/Lyell/Dewey Intersection Realignment & Revitalization project. The funding will be used to realign a congested offset intersection to a four-way intersection, consolidating two signalized intersections into one. Currently, vehicles traveling northbound on West Broad Street (approx. 15,000 ADT) must turn right at Lyell Avenue (approx. 26,000 ADT) and turn left just 400 feet east at Dewey Avenue (approx. 13,000 ADT) to continue northward. This creates a pattern of unsafe turns, traffic

congestion, and poor bicycle and pedestrian quality. This project will also support the privately-funded redevelopment of a long-vacant, highly-visible building in an economically-distressed community. A long-vacant five-story, 122,000-square foot warehouse (Gardner Mill) at the corner of Lyell and Dewey, a prominent building that has symbolized the neighborhood's decline, is planned for rebirth as a \$21 million, 83-unit affordable housing development. To support this effort, and improve traffic safety and neighborhood walkability, the City of Rochester proposes to realign Dewey Avenue to the west of Gardner Mill to connect with West Broad Street at an improved four-way intersection. The existing section of Dewey adjacent to Gardner Mill will be abandoned and incorporated into the redevelopment.

This request is for the planning, design and construction of a realigned intersection, which will more safely redirect car and pedestrian traffic and support the area's redevelopment.

### **Project's Benefits**

This project will improve traffic safety in a heavily-traveled corridor (roughly 40,000 vehicles use this intersection every day) by reducing the number of conflict points and consolidating signalized intersections. The intersection realignment will also support the privately-funded redevelopment of a long-vacant, highly-visible building in an economically-distressed community and has the added benefit of improving local air quality by reducing delay and improving traffic flow. Finally, this project will enhance the walkability of the Lyell Avenue business district, which may stimulate additional development in the area.

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## **City of Rochester**

**Project Name:** Highland Reservoir  
**Funding Request:** \$3,080,000  
**Address:** 30 Church Street, Room 205A, Rochester, NY 14614

### **Project's Description**

The City of Rochester requests \$3,080,000 from the U.S. EPA State and Tribal Assistance Grants account in the FY 2010 Interior and Environment Appropriations Bill for its Highland Reservoir Liner Installation Project. In 2006 the City initiated a comprehensive study of its three water storage reservoirs with the purpose of identifying the best method of bringing its reservoirs into compliance with the LT2 Rule. This exhaustive study concluded that to best meet EPA requirements, the City should install liners on the Rush and Highland Reservoirs, a floating cover on the Rush, and Ultraviolet Disinfection treatment devices on the outlets of both Cobbs Hill and Highland Reservoirs. The project to install a liner on the Highland Reservoir is the first of five phases necessary to meet federal standards and ensure the continued safety of Rochester's drinking water. These phases will take place over the next five years and cost the City of Rochester at least \$22.5 million. Without federal assistance, the City will have to significantly raise water rates and place an undue burden on the citizens of the Rochester area, who are already struggling with the impacts of job losses as a result of the weak economy.

This request is for the engineering and construction of a reservoir liner for the Highland reservoir. This reservoir is one of the three major reservoirs which compose the backbone of the City of Rochester's water supply.

### **Project's Benefits**

In January 2006, the U.S. Environmental Protection Agency issued the Long Term 2 Enhanced Surface Water Treatment Rule (LT2) under the Safe Drinking Water Act, which includes additional requirements for uncovered treated water storage facilities. The rule is intended to protect the public against microbes that can cause waterborne disease outbreaks, such as Giardia, Cryptosporidium, and viruses. Specifically, the LT2 Rule requires that all reservoirs that store treated water must be either covered, replaced with a closed tank or have installed additional post treatment of the water leaving the reservoirs, such as ultraviolet disinfection treatment or advanced water filtration.

A comprehensive study initiated by the City in 2006 concluded that to best meet EPA requirements, the City should install liners on the Rush and Highland Reservoirs, a floating cover on the Rush, and Ultraviolet Disinfection treatment devices on the outlets of both Cobbs Hill and Highland Reservoirs. This liner installation project is the first of five phases necessary to meet these federal standards.

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## **Greater Rochester International Airport**

**Project Name:** Runway Line of Sight and Safety Improvements  
**Funding Request:** \$11,200,000  
**Address:** 1200 Brooks Avenue, Rochester, New York 14624

### **Project's Description**

Rehabilitate Runway 10-28 and correct grading deficiencies in the land area and intersecting runways obstructing required Line of Sight between Primary Runway 4-22 and Crosswind Runway 10-28. Reconstruct Taxiway A at Runway 4 Threshold to replace 30 year old deteriorating pavement and improve turn radius to meet FAA Standards.

The projects includes changing grade levels in land between intersecting runways, changing grade on parts of the two runways, taxiways and reconstructing relevant parts of taxiways and the two runways.

### **Project's Benefits**

Improve Runway and taxiway safety by eliminating grading obstacles to allow clear sight between Intersecting runways to meet FAA Standards.

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**Monroe County  
Department of Public Safety**

**Project Name:** Biology/DNA Module  
**Funding Request:** \$2,000,000  
**Address:** 50 West Main Street Suite 4119, Rochester, NY 14614

**Project's Description**

The current backlog in the DNA area is 4 ½ years. This module is expected to reduce it to 30 days. This project is designed to increase casework throughput in the Biology Section and add new DNA capabilities. This will allow the laboratory to analyze more biological evidence by increasing the capacity for screening evidence for biological fluids and then applying new DNA technology to develop genetic profiles to solve cases and help reduce casework backlogs. DNA evidence is being pursued in most crimes and providing more evidence than the present facility can handle. New evidence examination areas, workstations, hoods and equipment will be purchased to handle this casework.

The project funding will be used for equipment and equipment related subsystems within the building approved for funding by the BYRNE Grant Program Managers at DOJ. Building Construction is not eligible.

**Project's Benefits**

Monroe County is required to provide, "in a public safety laboratory, crime detection services through the analysis of evidence associated with possible crimes".

The current Crime Lab is in dire need of renovation for accreditation and safety requirements. Renovations to the location of the current laboratory would be more costly than a new facility. A task force inclusive of all stakeholders has prepared a report and recommendation for a new state-of-the-art regional crime lab which will meet current and future needs of the Region and reduce / eliminate the 2-4 year backlog (3-4 years in DNA) of cases and more effectively support the Criminal Justice System.

Monroe County is requesting Congresswoman Slaughter to support this Biology DNA Module to enable the New Crime Lab to meet the objectives of the Debbie Smith Act and reduce all DNA Analysis backlog from approximately 4 years to less than 30 days and remain current thereafter. Monroe County currently services all criminal justice agencies (federal, state and local) agencies throughout Monroe and eight surrounding counties of Genesee, Livingston, Ontario, Seneca, Wayne, Wyoming, Yates, and Orleans.

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**Monroe County  
Monroe Community Hospital**

**Project Name:** Medical Records (E-MAR) Upgrade  
**Funding Request:** \$767,500  
**Address:** 435 E. Henrietta Road, Rochester, NY 14620

**Project's Description**

Currently all medication delivered to patients and residents at MCH is tracked by nurses manually. Manual tracking of thousands of medication doses per day and the corresponding reconciliation with physician orders involves a huge amount of nursing time which could be better spent dealing with other patient needs. E-MAR would automate this process saving time and minimize error potential. This is a one time expenditure to purchase software and hardware and train the nursing staff.

**Project's Benefits**

Adds the equivalent of 4-5 Nurses at no expense and reduces possibility of mistakes in medication. MCH staff members calculate that nurses would spend at least 675 hours less per month maintaining these records with an automated system. This project will free at least the equivalent of 4-5 fulltime nurses spread over all patient care areas, around the clock. Scarce nursing time would be much better utilized focusing on patient care needs at the bedside. Additionally, recognizing the great potential for human error in manual tracking, the Institute of Medicine considers E-Mar to be an important approach toward improving the safety of health care. Studies of facilities using E-MAR demonstrate success up to a 92% reduction in adverse drug events.

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**Monroe County  
Department of Transportation**

**Project Name:** Intelligent Transportation System  
**Funding Request:** \$1,000,000  
**Address:** 110 County Office Building, 39 West Main Street, Rochester, New York 14614

**Project's Description**

This project consists of deploying a system of cameras, dynamic message signs, highway advisory radio beacons, software licensing, fiber optic cable installation/upgrades, duct connections, communications infrastructure and display/controls along key City, County and State arterials as well as expressways as recommended by the Advanced Transportation Management System (ATMS) planning report and included in the Regional ITS Architecture.

Primary emphasis will be placed on locations on and near the expressway, especially routes that experience diverted traffic during incidents, as well as high volume arterial routes that regularly experience congestion. This project will expand the cameras and signs area wide based on the locations recommended by the initial project. It also supplements parallel projects under planning and construction along the Monroe County expressway network by NYSDOT. Regional significance to this project is provided through the joint use of the camera images and utilization of the signs and radio at the Regional Traffic Operations Center, a shared multi-agency facility (tenants include Monroe County DOT, NYSDOT, NYS Police, Monroe County Aviation) that covers the entire Rochester region. These traffic management devices will supplement other devices in the field, forming a more continuous area of coverage and allowing better multi-agency response to incidents.

### **Project's Benefits**

Monroe County and NYSDOT are working cooperatively to implement a comprehensive, integrated ITS system. In addition, regional significance is provided through the joint use of the camera data and utilization of the signs at the Regional Traffic Operations Center, a shared multi-agency facility that covers the entire Rochester region. These traffic management devices will supplement other devices in the field, forming a more continuous area of coverage and allowing better multi-agency response to incidents.

In addition, this project will reduce congestion and improve air quality by rerouting traffic around problem areas, monitoring traffic conditions, and allowing more effective signal timing adjustments in response to unusual traffic conditions. It will improve safety by reducing incident detection and response times and reducing nonrecurring congestion. As a result this will provide the stimulus to maintain existing businesses and also provide opportunities for new economic development initiatives.

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### **Monroe County Department of Transportation**

**Project Name:** Long Pond Road Improvements  
**Funding Request:** \$2,700,000  
**Address:** 110 County Office Building, 39 West Main Street, Rochester, New York  
14614

### **Project's Description**

This project will provide improvements to, Long Pond Road – Lake Ontario State Parkway to Edgemere Drive in the Town of Greece, Monroe County, that is vital to the economic stability and vitality of the region. Implementation of this project will ensure that a safe, efficient and environmentally sound transportation network will provide the stimulus to maintain existing businesses and also provide opportunities for new economic development initiatives. This project consists of making improvements (rehabilitating to acceptable standards in order to maintain or

improve safety and efficiency for all modes of transportation) to approximately 1.35 miles of this highway of significance in Monroe County, New York. Typical improvements will consist of the resurfacing and/or overlaying of the road riding surface, improved drainage facilities, paved shoulders where applicable and curbs or gutters. In addition adequate bicycle space and pedestrian amenities will be included where feasible.

### **Project's Benefits**

This project serves the residents and businesses of the Towns of Greece to access the Long Pond Road and Latta Road corridors which include vital commercial districts. Long Pond Road also provides access to the Lake Ontario State Parkway, which is an important commuter route, all in Monroe County, New York. This project provides improvements to vital transportation segments within Monroe County that will maintain the economic vitality and encourage economic growth of the region by facilitating the transportation needs for commuters/employees, customers and goods movement that will sustain commercial and business enterprises and stimulate opportunities for economic development.

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### **Monroe County Department of Transportation**

**Project Name:** Moscow Road Bridge  
**Funding Request:** \$1,500,000  
**Address:** 110 County Office Building, 39 West Main Street, Rochester, New York 14614

### **Project's Description**

This project will provide improvements to vital transportation segments within Monroe County that are vital to the economic stability and vitality of the region. Implementation of this project will ensure that a safe, efficient and environmentally sound transportation network will provide the stimulus to maintain existing businesses and also provide opportunities for new economic development initiatives. This project consists of making improvements (providing a new structure that meets acceptable standards in order to maintain or improve safety and efficiency for all modes of transportation) to bridges of significance that serve the residents and businesses of the Town of Hamlin to access Hamlin Beach State Park which is a major recreational destination in this area of Monroe County. The Moscow Road Bridge also provides access to the Lake Ontario State Parkway, which is an important commuter route, all in Monroe County, New York. The bridge project includes full replacement with a new structure that will provide a service life of approximately 75 years before major reconstruction or replacement is required insuring a safe facility is available for all users.

### **Project's Benefits**

This project provides improvements to vital transportation segments within Monroe County that will maintain the economic vitality and encourage economic growth of the region by facilitating the transportation needs for commuters/employees, customers and goods movement that will sustain commercial and business enterprises and stimulate opportunities for economic development.

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**Monroe County  
Department of Transportation**

**Project Name:** Various Bridge Improvements  
**Funding Request:** \$965,000  
**Address:** 110 County Office Building, 39 West Main Street, Rochester, New York  
14614

**Project's Description**

This project will provide improvements to vital transportation segments within Monroe County that are vital to the economic stability and vitality of the region. Implementation of this project will ensure that a safe, efficient and environmentally sound transportation network will provide the stimulus to maintain existing businesses and also provide opportunities for new economic development initiatives. This project consists of making improvements (rehabilitating to acceptable standards in order to maintain or improve safety and efficiency for all modes of transportation) to bridges of significance in Monroe County, New York that serve the residents and businesses of the Towns of Greece and Parma. Typical improvements will consist of sealing the structural deck with an approved sealer, and painting the structural steel members where applicable. These preventative maintenance activities are intended to maintain the structures in good service and keep the condition ratings (5-7) from falling into the deficient range (below 5).

**Project's Benefits**

This project provides improvements to vital transportation segments within Monroe County that will maintain the economic vitality and encourage economic growth of the region by facilitating the transportation needs for commuters/employees, customers and goods movement that will sustain commercial and business enterprises and stimulate opportunities for economic development.

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### **New York Department of Transportation**

**Project Name:** Empire Corridor West High Speed Rail Improvements  
**Funding Request:** \$1,245,000  
**Address:** 50 Wolf Road, Albany, NY 12232

#### **Project Description**

Funds will be used to improve grade crossing safety and to facilitate high speed rail in Monroe County along the Empire West Corridor from mile post 361.36 to 362.25. Work will include reconfiguration to enhance safety, including improvements such as upgrades to existing warning devices and the installation of channelization devices. This effort would be coordinated by NYSDOT with CSX and Amtrak. This project will enable higher speeds throughout the corridor and would thereby reduce travel times and increase on-time service.

### **New York Department of Transportation**

**Project Name:** Empire Corridor West High Speed Rail Improvements  
**Funding Request:** \$1,075,000  
**Address:** 50 Wolf Road, Albany, NY 12232

#### **Project Description**

Funds will be used to improve grade crossing safety and to facilitate high speed rail in Monroe County along the Empire West Corridor from mile post 376.40 to 378.60. Work will include reconfiguration to enhance safety, including improvements such as upgrades to existing warning devices and the installation of channelization devices. This effort would be coordinated by NYSDOT with CSX and Amtrak. This project will enable higher speeds throughout the corridor and would thereby reduce travel times and increase on-time service.

### **New York Department of Transportation**

**Project Name:** Empire Corridor West High Speed Rail Improvements  
**Funding Request:** \$275,000  
**Address:** 50 Wolf Road, Albany, NY 12232

#### **Project Description**

Funds will be used to improve grade crossing safety and to facilitate high speed rail in Erie County along the Empire West Corridor at mile post 423.84. Work will include reconfiguration to enhance safety, including improvements such as upgrades to existing warning devices and the installation of channelization devices. This effort would be coordinated by NYSDOT with CSX

and Amtrak. This project will enable higher speeds throughout the corridor and would thereby reduce travel times and increase on-time service.

#### **New York Department of Transportation**

**Project Name:** Empire Corridor West High Speed Rail Improvements  
**Funding Request:** \$1,100,000  
**Address:** 50 Wolf Road, Albany, NY 12232

#### **Project Description**

Funds will be used to improve grade crossing safety and to facilitate high speed rail in Genesee County along the Empire West Corridor from mile post 392.85 to 396.50. Work will include reconfiguration to enhance safety, including improvements such as upgrades to existing warning devices and the installation of channelization devices. This effort would be coordinated by NYSDOT with CSX and Amtrak. This project will enable higher speeds throughout the corridor and would thereby reduce travel times and increase on-time service.

#### **New York Department of Transportation**

**Project Name:** Empire Corridor West High Speed Rail Improvements  
**Funding Request:** \$1,150,000  
**Address:** 50 Wolf Road, Albany, NY 12232

#### **Project Description**

Funds will be used to improve grade crossing safety and to facilitate high speed rail in Wayne County along the Empire West Corridor from mile post 354.25 to 354.61. Work will include reconfiguration to enhance safety, including improvements such as upgrades to existing warning devices and the installation of channelization devices. This effort would be coordinated by NYSDOT with CSX and Amtrak. This project will enable higher speeds throughout the corridor and would thereby reduce travel times and increase on-time service.

#### **New York Department of Transportation**

**Project Name:** Empire Corridor West High Speed Rail Improvements  
**Funding Request:** \$1,650,000  
**Address:** 50 Wolf Road, Albany, NY 12232

#### **Project Description**

Funds will be used to improve grade crossing safety and to facilitate high speed rail in Oneida County along the Empire West Corridor from mile post 262.64 to 263.77. Work will include

reconfiguration to enhance safety, including improvements such as upgrades to existing warning devices and the installation of channelization devices. This effort would be coordinated by NYSDOT with CSX and Amtrak. This project will enable higher speeds throughout the corridor and would thereby reduce travel times and increase on-time service.

### **New York Department of Transportation**

**Project Name:** Empire Corridor West High Speed Rail Improvements  
**Funding Request:** \$600,000  
**Address:** 50 Wolf Road, Albany, NY 12232

#### **Project Description**

Funds will be used to improve grade crossing safety and to facilitate high speed rail in Montgomery County along the Empire West Corridor at mile post 176.93. Work will include reconfiguration to enhance safety, including improvements such as upgrades to existing warning devices and the installation of channelization devices. This effort would be coordinated by NYSDOT with CSX and Amtrak. This project will enable higher speeds throughout the corridor and would thereby reduce travel times and increase on-time service.

### **New York State Department of Transportation**

**Project Name:** New York State Scenic Byways Program  
**Funding Request:** \$2,400,000  
**Address:** 50 Wolf Road, Albany, NY 12232

#### **Project's Description**

New York State Scenic Byways Program Project of Statewide Significance: Project funding will be used for new scenic byway project activities along the many state and several nationally designated scenic byways in New York State. Project funding will be limited to FHWA eligible project activities under Title 23, including: Corridor Management Planning, efforts, Safety Improvements, Byway Facilities, Access to Recreation, Resource Protection, Interpretive Signing and Information, and Marketing efforts for byway communities.

#### **Project's Benefits**

The New York State Scenic Byways Program and Advisory Board, like FHWA's National Scenic Byways Program, will focus on projects with demonstrated benefits for the byway traveler, such as:

- Protection of scenic, historical, recreational, cultural, and natural resources in areas adjacent to a scenic byway.

- Improvement to a scenic byway that will enhance access to an area for the purpose of public recreation.
  - Development and implementation of byway corridor management plans to maintain the scenic, historical, recreational, cultural, natural, and archaeological characteristics of a byway corridor while providing for accommodation of increased tourism and development of related amenities.
  - Safety improvements to designated byways to the extent the improvements are necessary to accommodate increased traffic and changes in the types of vehicles using the highway/byway as a result of designation.
  - Construction along a designated scenic byway of a facility for pedestrians and bicyclists, rest area, turnout, highway shoulder improvement, overlook, or interpretive facility.
  - Development and provision of tourist information to the public, including interpretive information and signs about a designated scenic byway.
  - Development and implementation of a scenic byway marketing program.
- 

**New York State Department of Transportation  
New York State Canal Corporation**

**Project Name:** Rehabilitation of West Guard Lock  
**Funding Request:** \$4,000,000  
**Address:** 200 Southern Boulevard, Albany, New York 12209

**Project's Description**

Funding is requested to rehabilitate the West Guard Lock, located on the Erie Canal in Rochester, Monroe County. This project will involve steel tower, gate and concrete repairs; replacement of electrical systems; and rehabilitation of mechanical systems. Work must be accomplished during the winter, non-navigation season. The West Guard Lock is one of two guard locks located on the Erie Canal near the Genesee River in Monroe County. The purpose of this structure is to isolate the Canal System in the event of severe fluctuations in water elevation. Failure of this structure could compromise public safety, cause damage to property, and close the main commercial shipping route on the New York State Canal System.

**Project's Benefits**

The West Guard Lock is one of two guard locks located on the Erie Canal near the Genesee River in Monroe County. Failure of this structure would close the New York State Canal System in this region, and would possibly cause damage to property or compromise the safety of the

public. The purpose of this structure is to isolate the Canal system, in the event of severe fluctuations in water elevation, from the Genesee River and possible failure, upstream, at Mount Morris Dam. Closure of the Canal System would cause economic hardship to communities along the System.

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**New York State Department of Transportation  
New York Office of Parks and Recreation and Historic Preservation**

**Project Name:** Robert Moses Parkway Reduction  
**Funding Request:** \$5,624,000  
**Address:** Empire State Plaza, Bldg 1, Albany, NY 12238

**Project's Description**

The project is located at the intersection of the Robert Moses Parkway and John B Daly Boulevard in the City of Niagara Falls. The proposed project involves reducing the scale of the Robert Moses Parkway to two, low speed lanes, removal of the elevated embankment upon which the current roadway sits and replacement of the interchange features with a modern roundabout.

**Project's Benefits**

New system will provide improved pedestrian, bicycle accommodation; enhance the historic, recreational sites, lower maintenance costs, and improve the environmental, economic and social setting of the corridor.

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**New York State Department of Transportation  
New York State Thruway Authority**

**Project Name:** Bridge Repair  
**Funding Request:** \$3,150,000  
**Address:** 200 Southern Boulevard, Albany, New York 12209

**Project's Description**

Funding is requested to design a project to replace the North Grand Island Southbound Bridge deck and resurface and repair the South Grand Island Southbound Bridge. The New York State Thruway Authority has previously rehabilitated the four Grand Island Bridges in the Buffalo region.

## **Project's Benefits**

I-190 is a key transportation link in the western New York area. By ensuring that the bridge and highway are maintained properly, it will minimize delays to the traveling public and movement of goods to and from Canada.

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### **Niagara Military Affairs Council Niagara Air Reserve Base**

**Project Name:** Indoor Small Arms Range Modernization  
**Funding Request:** \$5,700,000  
**Address:** 8622 Buffalo Avenue, Niagara Falls, NY 14304

## **Project's Description**

The Niagara Falls Air reserve Station has a requirement for a modern firing range which would support the requirements of the Base wings, the units of the new Armed Forces Readiness Center and Department of Homeland Security tenants.

The current situation requires personnel to shoot at a range in Canada when utilizing the M-24B machine gun and M-249 rifle. Additionally, the current number of firing line positions is inadequate to satisfy the volume of monthly training requirements which has grown with the addition of the Regional Readiness Center at the Base.

Due to the fact that the existing range is outdoors and off-Base, students and instructors are exposed to the elements and extreme temperatures for extended periods of time. In addition, an exorbitant amount of time is wasted by personnel who must travel a distance to the range. Also, due to extreme weather conditions, the Wing loses several months of weapons qualifying each year. Clearly this new Small Arms Range will allow personnel to meet all necessary mandatory weapons training as well as meeting safety and environmental requirements.

## **Project's Benefits**

The construction of a firing range to meet the military requirements would also serve as an asset for additional Department of Homeland Security (DHS) tenants which would offset the construction costs and reduce Base Operations Support costs to the Department of Defense. While the Armed Services may not see the value in this, from a state and community perspective, additional DHS functions and tenants would be a tremendous advantage for Niagara Falls Air Reserve Station.

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### **Niagara Falls Water Board**

**Project Name:** Wastewater Treatment Plant Rehabilitation  
**Funding Request:** \$2,750,000  
**Address:** 5815 Buffalo Avenue, Niagara Falls, NY 14304

### **Project's Description**

Request is made for \$5 million for the “Wastewater Treatment Plant Rehabilitation” program. The treatment plant was constructed in the mid-1970’s with partial upgrades made in the mid-1980’s. The facility is now 32 years old. A Wastewater Treatment Plant Master Plan was completed in early 2005 that identified rehabilitation as the most cost effective option. The Master Plan identified necessary improvements that must be made over the next 20 years to meet federal and state regulatory requirements at a total cost of \$143 million in 2005 dollars. The NFWB bonded \$6 million in its 2005 budget for critical upgrades as part of Phase 1 of the project. Work on Phase 1 has commenced and is expected to be completed in early 2009. Some items that have been completed as part of this phase include belt filter press rehabilitation and sludge thickener repairs. Phase 2 is currently in design with bidding anticipated in Spring 2009. Phase 3 is in the planning stage with an expected completion by March 2009. Detailed design work will begin in mid-2009 and will be completed by early 2010. Once Phase 3 design work is completed, identified project bids will be issued. Specific details of the work plan and timeframe for Phase 3 would be more specifically defined once FY2010 appropriation is determined.

**Federal funding for the project was authorized in the Water Resources Development Act (WRDA) 2007 Sec. 5158 (185) “\$5 million for wastewater infrastructure Niagara Falls Water Board, New York.”** This funding will be used to upgrade the following: carbon filter underdrain reconstruction, main pumping station; primary basin sludge collection system; carbon transport system; Supervisory Control And Data Acquisition (SCADA); and sludge pumping system. These long-term capital improvements will allow the wastewater treatment plant to reliably meet the wastewater regulatory requirements of the NFWB in accordance with all United States Environmental Protection Agency (EPA) and New York State Department of Environmental Conservation (DEC) issued permits and requirements well into the future.

Federal laws such as the Clean Water Act require the NFWB to comply with all regulatory statutes for wastewater discharge into the Niagara River, including State Pollutant Discharge Elimination System (SPDES) requirements. The inability of the community to affordably invest in wastewater infrastructure upgrades will very likely result in environmental regulatory violations, fines and quite possibly a consent order.

Federal funding for this project is vital for the reliable operation of the facility, addressing environmental issues related to groundwater, the economic survival of Niagara Falls and the quality of life of its residents. Federal funding would help mitigate substantial and unaffordable rate increases, improve the environment through brownfield remediation, permit the plant to receive additional waste flows from remaining industries and prevent further decay to the city’s already fragile economy, which is among the poorest in the United States.

### **Project's Benefits**

Federal laws such as the Clean Water Act require the NFWB to comply with all regulatory statutes for wastewater discharge into the Niagara River, including State Pollutant Discharge Elimination System (SPDES) requirements. The inability of the community to affordably invest in wastewater infrastructure upgrades could result in federal and state environmental regulatory violations, fines and possibly a consent order. Federal funding is vital to this project because continued use of the facility without the required upgrades will drain facility resources and risk a major system failure that could greatly increase the risk of untreated wastewater being discharged into the Niagara River.

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### **Niagara Frontier Transportation Authority**

**Project Name:** Niagara Falls International Airport Resurface Runway  
**Funding Request:** \$10,000,000  
**Address:** 181 ELLICOTT STREET, BUFFALO, NEW YORK 14203

#### **Project's Description**

The NFTA proposes to resurface the main runway at the Niagara Falls International Airport (NFIA). The project will rehabilitate approximately 150,000 square yards of runway pavement to create a smooth operating surface.

#### **Project's Benefits**

Runway 10L – 28R is the fourth longest runway in New York State. It serves all NFIA passenger, cargo, military, and general aviation operations. As outlined in the Pavement Management Study, a complete mill and overlay is needed to insure compliance with Federal Aviation Administration (FAA) runway pavement standards.

While Runway 10L – 28R has undergone sectional re-pavement over the past 12 years, a comprehensive rehabilitation of the entire runway is needed to prevent surface deterioration and foreign object debris.

Specifically, this project will create a new concrete operating surface. The runway mill and overlay will eliminate climate induced cracks, stress fractures caused by normal aircraft operations, and joint seal damage. Pavement grooving, marking restoration, and rehabilitation of the taxiway transitions are also included. As a result, future runway shutdowns for excessive maintenance, and potential distressed pavement failures will be minimized.

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### **Niagara Frontier Transportation Authority**

**Project Name:** Purchase Hybrid Buses



**Funding Request:** \$4,560,000  
**Address:** 181 ELLICOTT STREET, BUFFALO, NEW YORK 14203

### **Project's Description**

New York State Department of Transportation also submitted a separate request of \$4,560,000 for this project.

The NFTA seeks to replace 10 conventional 40-foot diesel buses that have surpassed the Federal Transportation Administration's (FTA) 12-year useful life standard with 10 new hybrid buses for service in Erie and Niagara Counties. The NFTA annually requests funds to replace life expired buses.

### **Project's Benefits**

Currently, 148 of the NFTA's 330 buses are life expired. Ideally, the NFTA would have an average fleet age of six years - consistent with FTA's standard. With 40 percent of the fleet eligible for replacement, the NFTA's average fleet age is 8.9 years.

At the same time, demand for public transportation is growing. In 2008, Metro Bus boardings increased by 1.3 million. Representing a 6.7 percent increase from 2007, it is the system's largest annual ridership increase since 1986. Even as gasoline prices fall below \$2 a gallon, Erie and Niagara County travelers continue to utilize NFTA services.

In December 2008, Metro Bus boardings increased by 9.3 percent from December 2007, totaling 1.8 million monthly passengers. To serve Metro's 78 routes that annually travel over 11.7 million miles, ideally the NFTA would have a fleet of 336 buses.

In addition, hybrid buses fulfill the call for environmentally friendly transportation. While a conventional diesel bus gets approximately 4.5 mpg, a hybrid bus gets approximately 5.5 mpg. For the average bus that travels 40,000 miles per year, the fuel savings equals 1,616 gallons annually. Hybrid buses also reduce vehicle maintenance costs with regenerative braking systems and Diesel Emissions Reduction Act (DERA) compliant engines. Reductions in harmful emissions, 90 percent of carbon monoxide; 50 percent of carbon dioxide, and 50 percent nitrous oxides, improve ambient air quality.

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### **Rochester City School District**

**Project Name:** Project I.M.A.G.I.N.E  
**Funding Request:** \$1,800,000  
**Address:** 131 W. Broad Street, CO-2, Rochester, NY, 14614

### **Project's Description**

Project I.M.A.G.I.N.E. is a project proposal for Innovative Management Advancing Gains in Nutritional Educational Environments to promote health and quality food services delivery to disadvantaged urban public school students.

RCSD's Operations Division wants to aggressively improve the out-of-date, disintegrating food service facilities for thirty-nine (39) urban elementary schools and nine (9) urban high schools. Updated equipment in the District's centralized kitchen and the satellite instructional sites will significantly improve the amount of fresh, highly nutritional food that can be served to the students.

This upgrade will also reduce the amount of illness seen in children as better nutrition results in higher functioning immune systems. Healthier children perform better academically which, in turn, will lead to higher graduation rates and healthier citizens of tomorrow.

### **Project's Benefits**

Obesity is, arguably, the foremost health concern in America today and the long-term health prognosis for youth who are obese or overweight is grim. The prevalence of overweight school-age children has quadrupled in the past four decades, and the increase from 1999 (15.1% of children ages 6-11) to 2004 (18.8% of children ages 6-11) is statistically significant. Furthermore, disparity exists among majority and minority people (particularly Black and Hispanic) and health problems related to obesity are prevalent among people living in conditions of poverty. The City of Rochester's concentration of poverty among people of color creates a worst-case scenario. An opportunity exists to address the problem of obesity in youth within the schools. The RCSD serves more than 12,000 breakfasts and 23,500 lunches daily; physical education is mandated for all students; and the infrastructure is in place for a broad-reaching intervention to have success.

The City of Rochester, the county, and the school district have joined together to change the nutritional landscape and infrastructure for the entire community. Gaps exist in this infrastructure. *Project I.M.A.G.I.N.E.* addresses one critical facet of the gaps in the infrastructure to successfully combat the growing obesity problem and will jump start a cultural change in the quality of nutrition in the schools for the citizens of tomorrow.

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### **Rochester-Genesee Regional Transportation Authority**

**Project Name:** Lift Line Buses  
**Funding Request:** \$1,500,000  
**Address:** 1372 East Main Street, Rochester, NY 14609

### **Project's Description**

New York State Department of Transportation also submitted a separate request of \$880,000 for this project.

RGRTA seeks to replace eighteen (18) small buses that have reached the end of their useful life for its Lift Line paratransit operations. Lift Line operates a fleet of 45 small buses and provides ADA-compliant complementary paratransit service to eligible persons with disabilities within the area served by Regional Transit Service (RTS).

### **Project's Benefits**

The purchase of these replacement buses will enable Lift Line to maintain its reliable and cost-effective service to the disabled community. This valuable service allows Lift Line's clients ongoing access to employment, medical care, shopping and recreational opportunities. Under the ADA, public transit agencies are required to provide paratransit services to the disabled. Public transit agencies rely on federal funds to acquire the equipment necessary to comply with the ADA and carry out the mission of providing accessible public transportation services.

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## **Rochester-Genesee Regional Transportation Authority**

**Project Name:** Mt. Hope Station Transit Center  
**Funding Request:** \$1,500,000  
**Address:** 1372 East Main Street, Rochester, NY 14609

### **Project's Description**

New York State Department of Transportation also submitted a separate request of \$4,400,000 for this project.

RGRTA proposes to construct a new satellite transit center facility that will serve the University of Rochester/Strong Hospital complex. UofR/Strong is the largest employer in the greater Rochester region, currently employing over 24,000 persons. The area immediately adjacent to Strong Hospital is an excellent site for a satellite transit facility, due to its high level of transit ridership and the presence of the region's largest employer, which generates a large number of transit trips. The area also has excellent pedestrian access from both the hospital and the nearby residential neighborhood. The Mt. Hope Station transit center will facilitate interconnectivity between RGRTA bus routes, the University's shuttle buses and regional bus systems as well. The facility has the potential of encouraging transit usage by Strong Hospital employees and visitors, thereby improving air quality, reducing energy consumption and reducing the need for additional parking on the hospital campus.

### **Project's Benefits**

Funding of this project will facilitate the use of public transportation in the Rochester region, thereby improving air quality, reducing energy consumption and reducing the need for additional parking on the Strong Hospital campus.

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### **Town of Grand Island**

**Project Name:** Sanitary Sewer Evaluation Study  
**Funding Request:** \$220,000  
**Address:** 2255 Baseline Road, Grand Island, New York, 14072

#### **Project's Description**

The Town of Grand Island respectfully requests \$400,000 to complete the Sanitary Sewer Evaluation Study – Phase I. The Town of Grand Island recently received a draft order of consent from NYSDEC, per an EPA mandate, to better grasp its sanitary sewer system. Funding will allow the Town to inspect sewer lines using a closed-circuit camera to determine areas of weakness. This is the 1<sup>st</sup> priority of 2 projects for the Town of Grand Island.

To best identify the strengths and weaknesses in the Sanitary Storm Sewer System, the Town of Grand Island will hire, as a one-time expense, consultants to inspect sewer lines. Information gathered through this project will be provided to the Town of Grand Island, providing the Town Engineering Department with the best possible information to mitigate environmental issues with its Sanitary Storm Sewer system.

#### **Project's Benefits**

Through the proposed project, the Town of Grand Island will have the necessary funding to gather vital information on the structure and weaknesses of its sanitary storm sewer system, which will enable the Town to be in compliance with a draft order of consent received through the NYSDEC. Upon completion of all phases of the Sanitary Sewer Evaluation Study, the Town will seal off an additional six outfall points currently existing in its Sanitary sewer, which discharge into the Niagara River, significantly lessening the environmental impact on a Class A Special waterway.

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### **Town of Grand Island**

**Project Name:** Water Line along Staley Road  
**Funding Request:** \$275,000  
**Address:** 2255 Baseline Road, Grand Island, New York, 14072

#### **Project's Description**

The proposed project will construct 4,300 linear feet of a transmission water line along Staley Road, significantly increasing commercial access to clean water, improving fire protection, and encouraging industrial development. This is the 2<sup>nd</sup> priority of two Town requests.

### **Project's Benefits**

The proposed project is integral in retaining and expanding commercial and industrial business in the Town of Grand Island. Specifically, the proposed project will provide increased water pressure to Invitrogen Corporation (3175 Staley Road), APP Pharmaceuticals (3159 Staley Road), Astellas Pharma Manufacturing and Fujisawa Healthcare (3125 Staley Road). Many of the processes for these businesses rely on consistent flows at a high pressure, which cannot be provided by the current system. Most notable, Invitrogen Corp., a life science research and development firm, is planning a 21,500 square foot expansion to strengthen its local economic position and the positions of the 475 people who work at the plant. Invitrogen Corp. has received \$2.5 million from the Erie County Industrial Development Agency to assist with the expansion project

The proposed project will assist in the funding of the construction of 4,300 linear feet of new 12" PVC waterline along Staley Road, from Alt Boulevard to the pharmaceutical companies. The proposed project will supply increased water pressure to commercial and industrial facilities on Grand Island, which is necessary to run their daily operations. The proposed project is vital to retaining and expanding commercial business on the Town of Grand Island.

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## **Town of Kendall**

**Project Name:** Grant for Plow Trucks  
**Funding Request:** \$187,500  
**Address:** 1873 Kendall Rd., Kendall, NY 14476

### **Project's Description**

The Town of Kendall is seeking a grant to help fund the replacement of two heavy-duty plow trucks. The trucks we are seeking to replace are over thirty years old and are suffering from stress cracks in their frames making them unsafe for use.

### **Project's Benefits**

The purchase of replacement trucks will provide safe vehicles for the highway employees so that they can continue to perform vital services for the Town such as plowing roads, paving and performing routine maintenance on Town roads for the safety and welfare of the people of Kendall

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## **Town of Kendall**

**Project Name:** Kendall Community Park  
**Funding Request:** \$30,000  
**Address:** 1873 Kendall Rd., Kendall, NY 14476

### **Project's Description**

Funding is being requested to construct the Kendall Community Park. This park would include a gazebo, gardens, benches and fitness trails for use by the residents and visitors of the Town of Kendall. Funds are needed for materials and equipment. This would be a one-time construction cost. The Park would provide a place for community celebrations, concerts and cultural events. The Park grounds and trails would also be used for fitness activities or a place to go for some fresh air and relaxation.

Currently, plans have been drawn up by an architect and committee members have held presentations to various Town organizations. These organizations in turn have held various functions and sales and have donated the proceeds to help raise money for the park.

### **Project's Benefits**

The benefit of this project is that it would create a safe, attractive park and give the residents of Kendall a place to conduct community activities and promote community health and fitness within the Town limits.

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## **Town of Tonawanda**

**Project Name:** Niagara River Redevelopment Project  
**Funding Request:** \$680,000  
**Address:** 200 Niagara Street, Tonawanda, NY 14150

### **Project's Description**

Proposed project/activity involves the removal of hazardous material, and demolition of three abandoned properties owned by the city of Tonawanda. Properties were the former water pumping and treatment facilities that are no longer in use because the city of Tonawanda entered into an agreement with the Erie County Water Authority to provide water for the residents of the city. Properties are located adjacent to the Niagara River. The city commissioned a Phase II Environmental Site investigation that identified various materials that need to be properly remediated before demolition activity can begin.

### **Project's Benefits**

Remove seriously deteriorated properties containing hazardous material; improve public access to Niagara River; create new construction jobs; built and expand tax base; attract new residents to the city to support existing retail and commercial businesses.

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### **Town of Tonawanda**

**Project Name:** Veteran's Memorial  
**Funding Request:** \$60,000  
**Address:** 2919 Delaware Avenue, Kenmore, NY 14217

#### **Project's Description**

Funding is requested for the Town of Tonawanda Veterans' Memorial. The Town will retain a contractor to construct the memorial at Kenney Field, a Town owned park.

The request is for construction. This is a "one-time" expense. The memorial will provide a place for reflection and commemorative special events on occasion.

#### **Project's Benefits**

The project will honor the sacrifices made by our community's service men and woman who have served their country in the armed forces.

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### **Town of Lewiston**

**Project Name:** Eliminate Public Safety Hazards  
**Funding Request:** \$1,340,000  
**Address:** Town Hall, 1375 Ridge Road, Lewiston, NY 14092

#### **Project's Description**

Name: Eliminate Public Safety Hazards – Town of Lewiston Property, Former Lake Ontario Ordnance Works Waste Water Treatment Plant, Town of Lewiston, NY

Purpose: To remove public safety hazards resulting from deteriorated World War II era facilities through the removal of asbestos containing materials, demolition of unsafe structures, and installation of protective grates, barriers, and signs, disposing of debris, and collecting and analyzing environmental samples to determine the presence of chemical and radiological contaminants.

Description: The hazards present include falling debris, open pits, and drowning hazards. The site represents an attractive nuisance and extreme safety hazard to trespassers. These hazards

result from the deterioration of structures originally built by the Department of the Army in 1943. The plant has been idle since the 1940s. The project would eliminate these hazards through demolition of unsafe structures, filling or covering of open pits, disposing of debris, installing protective fencing and signs, and collecting environmental samples to determine the presence of contaminants in the water and sludge within open pits and vaults.

### **Project's Benefits**

This project would greatly improve public safety by removing severe hazards which pose serious bodily injuries or death from falling debris, drowning, unstable structures, and other physical hazards. This project would complement federal efforts to investigate and remediate hazards resulting from the construction and use of the Lake Ontario Ordnance Works (LOOW), built by the Department of the Army in 1943. The Department of Defense is responding to chemical, radiological, and explosives hazards under the Formerly Utilized Sites Remedial Action Program (FUSRAP) and the Defense Environmental Restoration Program – Formerly Utilized Defense Sites (DERP-FUDS). The physical hazards present at the former LOOW wastewater treatment plant are ineligible for removal under these federal programs. Project funding from the Office of Economic Adjustment would provide the necessary authorization and appropriation for the US Army Corps of Engineers to complete the project and enhance the overall federal effort to remediate this former defense site.

### **Project's Location**

Yes. The property is located in, and owned by, the Town of Lewiston.

### **Language Request**

“The Corps of Engineers is authorized and directed to execute a project to eliminate public safety hazards existing at the Town of Lewiston, NY property containing the former Lake Ontario Ordnance Works wastewater treatment plant”

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### **U.S Army Engineer Division**

**Project Name:** Chicago Sanitary & Ship Canal, Dispersal Barrier, IL  
**Funding Request:** \$7,575,000  
**Address:** U.S. Army Engineer District, Chicago, 111 North Canal Street  
Suite 600, Chicago, IL 60606

### **Project Description**

The funding will be used for the construction and operation of the electric dispersal barriers in the Chicago Sanitary & Ship Canal as well as the study to consider alternative approaches to prevent interbasin transfers of aquatic nuisance species.

### **Project Benefits**



The funding will be used for the construction and operation of the electric dispersal barriers in the Chicago Sanitary & Ship Canal and to conduct a study to consider alternative approaches to prevent interbasin transfers of aquatic nuisance species.

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#### **U.S Army Engineer Division**

**Project Name:** Great Lakes Remedial Action Plans & Sediment Remediation, MI, IL, IN, MN, NY, OH, PA & WI  
**Funding Request:** \$4,000,000  
**Address:** U.S. Army Engineer Division, Great Lakes & Ohio River Division  
550 Main Street, Room 10032 Cincinnati, Ohio 45202-3222

#### **Project Description**

RAPs embody a comprehensive ecosystem approach to restoring and protecting beneficial uses and to identifying specific actions to resolve pollution problems.

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#### **U.S Army Engineer Division**

**Project Name:** Great Lakes Fishery & Ecosystem Restoration, MI  
**Funding Request:** \$10,000,000  
**Address:** U.S. Army Engineer Division, Great Lakes & Ohio River Division  
550 Main Street, Room 10032, Cincinnati, OH 45202

#### **Project Description:**

Under this program, the Corps will coordinate with other Federal, State, and local agencies and the Great Lakes Fishery Commission to plan, implement, and evaluate projects supporting the restoration of the fishery, ecosystem, and beneficial uses of the Great Lakes.

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## **Village of Fairport**

**Project Name:** High Street Reconstruction  
**Funding Request:** \$525,000  
**Address:** 31 South Main Street, Fairport NY 14450

### **Project's Description**

The project, named High Street Reconstruction, will involve the reconstruction of all or parts of the street and other right-of-way improvements (sewers, curbs, sidewalks) related to High Street, Village of Fairport. High Street is a local street with a length of .52 miles which begins at North Main Street, Fairport and ends at Turk Hill Road, and is generally twenty feet pavement width within a fifty foot right-of-way. It has been many years since improvements have been made to this heavily travelled street. The street serves a mix of commercial and residential areas. The pavement surface is substandard due to age and general deterioration, including from numerous pipe crossings installed over time below the surface. The entire length of the street suffers from disorganized shoulder areas, curb cuts, streetscape treatment and lacks safe sidewalks in areas.

The length of the street and cost of comprehensive corrective measures makes the project difficult to perform for the Village of Fairport within its budget and capital planning.

This request is for the one-time expense of upgrading a busy street to better serve the Village obligation to provide safe, functional, attractive facilities for motorists and pedestrians.

### **Project's Benefits**

The primary benefit of the project is to improve vehicular use of, and safety within, this important arterial street and connection. The Village is undertaking a Circulation, Access and Parking planning study of traffic congestion and other problems around the Fairport central business district. The study will identify needed improvements that will correct problems related to circulation of vehicular and pedestrian traffic. This funding will become the means to correct the problems identified on High Street, where improvements have been deferred for many years.

Secondary, yet important, benefits will accrue for pedestrian circulation and safety, increased access to businesses, better organized and safer crosswalks, and improved storm and sanitary sewer performance.

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## **American Pacific Corporation**

**Project Name:** Bromotrifluoropropene (BTP)  
**Funding Request:** \$2,600,000  
**Address:** 6686 Walmore Road, Niagara Falls, NY, USA 14304

## **Project's Description**

Recently, the International Civil Aviation Organization (ICAO), a United Nations body, adopted a requirement to mandate the replacement of several applications of the very high ODS fire suppressants on all commercial aircraft, including portable fire extinguishers that are used in all of the passenger spaces of commercial aircraft and in some commercial derivatives of new military aircraft that receive Airworthiness Certification from the FAA, such as the Joint Cargo Aircraft. Industry and the military will be forced to replace the high ODS fire extinguishers with either high GWP gases or an agent that will either need to be phased out of use in 2015 or no longer produced beginning in 2020 per international agreement under the Montreal Protocol.

Bromotrifluoropropene (BTP) is a non-ODS, low-GWP agent initially developed through a university/government/industry consortium that has the potential to be a drop-in replacement in this application. The project is intended to demonstrate and validate the fire performance and life safety capabilities of BTP as a potential extinguishing agent in for this application and also on military and commercial flightlines for first responders. Activities would include small and large scale fire tests, agent production, compatibility testing, confirmation of atmospheric and toxicological effects, system design and engineering. The Army is well equipped to perform these activities and has experience in developing, testing and demonstrating acceptable replacements for high ODS fire and explosion extinguishants. The Army has direct experience in developing, demonstrating and implementing a non-ODS, non-GWP portable extinguisher uniquely suited for the M1 Abrams Tank.

## **Project's Benefits**

This project has the potential to develop a non-ODS, low-GWP agent to replace high-ODS, high-GWP agents that could have unique application for critical non-military uses such as commercial aviation and also have application for niche military uses as well. It would provide an American company with a global competitive edge and could become the lone supplier of fire extinguishing agent that is non-ODS and very low GWP in these global civil aviation and military applications.

Upon successful completion of testing and verification, this project will permit full-scale production for military and civilian uses in Niagara Falls, but the majority of results verification will take place in Army facilities outside the district.

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### **AndroBioSys, Inc.**

**Project Name:** Curing Lethal Prostate Cancer  
**Funding Request:** \$2,000,000  
**Address:** 73 High Street, Buffalo, NY 14203-1149

## **Project's Description**

AndroBioSys is requesting DoD funding for a project whose goal is to develop a therapy to treat the lethal form of prostate cancer. In 2008, over 186,000 individuals in the US were diagnosed with prostate cancer and over 28,000 died of this disease. It is the second leading cause of cancer-related death in males, with African Americans having almost a two-fold greater risk of death. Although clearly an age-related disease, small prostate cancer foci are present in up to 29% of males 30 to 40 years of age.

AndroBioSys is developing a therapeutic program to prevent progression to the currently incurable form of the disease, block the migration of cancer cells to distant organs, and eliminate the side effects associated with current therapeutic approaches. This disease has a significant impact on the American military, especially senior ranking officers, however, a significant proportion of young personnel harbor this disease. The therapeutic approaches developed also will be applicable to other prevalent, challenging cancer types such as breast, endometrial and ovarian cancers, which represent diseases also of priority to DoD.

The funding will be expended to hire research personnel, and on laboratory supplies and equipment, with the monies expended within the Buffalo Niagara Medical Campus and Western New York. This will be a one time expense: this project will be funded subsequently through contract research, collaborations with pharmaceutical companies and continued funding from local investment sources.

## **Project's Benefits**

Prostate cancer will affect 200,000 current members of the United States military and 3.3 million veterans, and will result in 100,000 deaths. While a diagnosis of prostate cancer occurs most commonly in senior leadership, early prostate cancer could be detected in 15% of current active personnel. The project will directly benefit those members of the US military (both active and retired) at risk for developing prostate cancer (and possibly breast, endometrial and ovarian cancer), the general population who is at risk, as well as the estimated 2 million individuals in the US currently living with Prostate Cancer.

Current treatment options cost the US health care system \$8 billion per year. Funding of this project supports expansion of the life science industry in Western New York by immediately creating high-paying jobs, takes advantage of the large investment already made in developing the Buffalo Niagara Medical Campus as a world-class research enterprise and prevents the loss of investment made in talented individuals who otherwise would relocate out of the region for employment in the highly competitive commercial biotechnology sector.

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## **Calspan Flight Research Group**

**Project Name:** X-49A Envelope Expansion Modifications

**Funding Request:** \$4,500,000  
**Address:** 4455 Genesee Street, Buffalo, NY 14225

### **Project's Description**

X-49A Envelope Expansion Modifications. A \$4.5 million plus up to Navy RDT&E PE 0603114N "Power Projection Advanced Technology" is requested for the modification of the X-49A Vectored Thrust Ducted Propeller (VTDP) Compound Helicopter Technology Demonstrator to incorporate the Adaptive Digital Automated Pilot Technology (ADAPT) and Supplementary Power Unit (SPU) system to enable full flight envelope expansion. Integration of the ADAPT programmable flight control and Supplementary Power Unit (SPU) systems on the X-49A VTDP Compound Helicopter Demonstrator (FAA # N40VT) will enable flight validation of the technology's potential to significantly increase speed, range, hover payload, ceiling, maneuverability, and survivability beyond that of conventional helicopters. ADAPT incorporates patented advanced flight control algorithms to enable in stride re-configuration to adapt to battle damage, optimize for various flight regimes (performance, maneuverability, min O&S cost), and reduce pilot work load to enhance survivability and mission effectiveness. The SPU system, through the X-49A's dual path power train architecture, enables a significant increase in power available while retaining the existing main transmission, enabling a 20% increase in hover performance, speeds in excess of 200kts, and improved One Engine Inoperative (OEI) performance.

### **Project's Benefits**

The US DoD is currently embarking on a \$40 Billion major recapitalization program of its existing helicopter fleet, including the H-60, AH-64, Marine Corps H-1, and others, that will extend the service life of these legacy platforms out beyond 2040. DoD is also exploring rotorcraft technologies to address current helicopter limits in speed, range, ceiling, and lift capabilities to more effectively operate at extended distances and in high altitude operating environments, such as those currently being experienced in the Global War on Terror. Successful demonstration of the VTDP Compound Helicopter technology will offer the Services the option of inserting this technology into these on going modernization programs as an affordable and timely means of addressing these capability gaps with the existing fleet, and at the same time expands the technology base for the next generation advanced rotorcraft platforms.

With respect to Calspan, this initial effort is likely to serve as a catalyst for further work in the area of fly-by-wire flight control systems. Calspan stands to gain additional business, and the local jobs that go with it, as this program transitions from a technology demonstration to production,

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### **Cleveland Biolabs**

**Project Name:** Protectan  
**Funding Request:** \$2,000,000  
**Address:** 73 High Street, Buffalo, NY 14203

## **Project's Description**

Protectan (CBLB 502) is a breakthrough medical radiation countermeasure drug that can protect and mitigate against the harmful effects of radiation whether from cancer treatment, a radiological dirty bomb or a nuclear accident. There is currently no licensed medical product with the same broad scope and efficacy.

The DOD and DHHS provided significant R&D funding for aspects of the development of this drug. Protectan can be administered in advance to first responders as well as to victims with potential or real radiation exposure (up to 72 hours post-exposure) and provides very significant improvement in survival. In addition the drug selectively protects normal human tissue from the effects of radiation exposure associated with cancer therapy, allowing development of improved therapeutic protocols. .

The funds requested will provide the support needed to complete the drug safety trials that are already underway in healthy individuals and additional targeted studies for special populations such as children, pregnant women and the elderly. In addition, the funds will support final stability and production testing required by FDA before approval and full scale manufacturing. Lastly, this award will support the specialized development and manufacturing of the delivery system: product, vials, and injection device.

## **Project's Benefits**

One of our greatest lessons from the attacks of 9/11 was that a single terrorist attack can kill or injure more civilians than months of modern-day warfare. Thus, an important outcome of the 9/11 attacks is the current focus on generating medical countermeasures against potential terrorist weapons of mass destruction, including chemical, biological, radiological and nuclear weapons. Detonation of any nuclear device or dirty bomb will release ionizing radiation, which will cause failure of the immune and gastrointestinal systems through the death of damaged cells and subsequent tissue disintegration. Currently there are no pharmaceuticals available that can protect first responders or any individual going into a contaminated environment, and the general population from acute radiation injury.

Our lead drug candidate, ***Protectan CBLB502***, is a new type of medical radiation countermeasure, which protects cells from such death and enables them to repair damage acquired through acute stresses, such as radiation. CBLB502 is the first compound of its kind to provide protection from both gastrointestinal and hematopoietic (bone marrow/blood production) radiation-induced damage. It is safe, highly efficacious, free of performance-degrading side effects, compatible with current military CBRN countermeasures, quick acting, and easy to use in emergency situations (final formulation will not require refrigeration or have other significant logistical burdens and will have a relatively long shelf life).

CBLI is fully committed to completing the development of CBLB502 and submitting a license application to the FDA for approval as a medical radiation countermeasure in 20 months.

## **Project's Potential Job Creation & Retention**

- Jobs created in Buffalo, NY: 25 –28 FTEs &
  - Jobs retained in Buffalo, NY: 29 FTEs
- 

### **Dawnbreak**

**Project Name:** Revitalize Upstate New York  
**Funding Request:** \$1,500,000  
**Address:** 3161 Union Street, North Chili, NY 14514

#### **Project's Description**

**Objective:** The objective of this project is to revitalize upstate New York, specifically the districts of Congresswoman Louise Slaughter and Congressman Eric Massa by leveraging the federal Small Business Innovation Research (SBIR) and the Small Business Technology Transfer (STTR) programs to grow local advanced technology firms which can meet our (1) energy efficiency and renewable energy, (2) defense, and (3) medical technology needs.

**Proposal:** The intent of the proposed initiative is to (1) conduct an inventory of relevant businesses and university initiatives within these two districts and make these data publicly available through a database; (2) develop a marketing communication plan called “Revitalize Upstate New York” which shares successes and lessons learned; (3) provide matchmaking services amongst entities that have synergistic technologies in order to more rapidly bring complete alternative energy and defense technologies to market; (4) provide unique assistance with securing SBIR and STTR awards with a focus on Phase III commercialization; and (5) develop and host web-based investor events.

**Outcomes:** This combination of services will accelerate the revitalization of Upstate New York by shifting from islands of excellence to districts of excellence. The vision of upstate New York as a leader in alternative energy requires a better understanding of what is already here. Increasing Upstate New York's share of DoD, DOE and HHS SBIR and STTR awards requires better collaboration between universities within these two districts and small businesses which can benefit from such collaboration.

#### **Project's Benefits**

The project will have the following benefits: (1) attract more federal dollars to the region through SBIR and STTR funding; (2) involve more small businesses and universities in economic development within the two districts; (3) speed up the introduction of products and technologies related to alternative energy, defense, and medicine due to the synergies that are leveraged amongst entities; (4) provide greater visibility to all assets that can be brought to bear in revitalizing Upstate New York; (5) Generate more jobs; (6) attract more non-SBIR investment dollars to the region through partnering and investor events.

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## DRS C3 Systems

**Project Name:** UMTE Modernization  
**Funding Request:** \$9,700,000  
**Address:** 485 Cayuga Road, Buffalo, NY 14225

### Project's Description

**UMTE Modernization for Volk Field ANG** - The current unmodified UMTE systems at Volk Field ANG base have shortcomings that negatively impact aircrew training and survivability and the system technology is outdated with obsolete parts. The upgrades to the systems modernize the technologies contained therein and provide enhance reactive capabilities which resemble real world surface to air missile and anti-aircraft artillery threats. The systems require technology upgrades to the ECM receiver, integration into the Air Combat Training System, redesign for part obsolescence and the systems are mobilized to resemble the real threat mobility thereby allowing time sensitive reactions to them. The UMTE's at the Eielson and Nellis AFB's have undergone similar upgrades with connectivity to the control centers with great success within the Air Force. This program continues to take advantage of those advancements across the board with Air Force EW aircrew training.

The upgrade of the UMTE systems takes advantage of mature electronic warfare threat simulation technology and will result in more realistic training, increased aircrew survivability. As the only threat simulation equipment at Volk Field AFB, the modernization and mobilization of UMTE will provide state-of-the-art capability necessary to train the existing and future advanced aircraft.

The request addresses the start of a modernization program with three of seven UMTE type threat simulators at Volk Field starting the program.

### Project's Benefits

First and foremost, the upgrade of the UMTE systems will result in more realistic electronic warfare surface to air missile threat training and as such increases aircrew/war fighter survivability. The project also helps maintain employment for the employees at DRS Buffalo, a third of which reside within Congresswoman Slaughter's district.

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## DRS C3 Systems

**Project Name:** B-SALTS Program  
**Funding Request:** \$4,000,000  
**Address:** 485 Cayuga Road, Buffalo, NY 14225



## **Project's Description**

The original B-SALTS program provided a commercial based proof of concept designed to validate aircraft auto tracking capabilities “on the move” with limited specification criteria to stimulate MWS’s on various aircraft with a two color IR stimulator. The “on the move” capability was demonstrated and performed successfully. There are no existing “on the move” capable system to stimulate MWS’s under test and evaluation scenarios. The “on the move” capability is required to accurately replicate the signature of an in flight MANPAD missile threat with UV/IR characteristics, otherwise the MWS onboard (aircraft) may dismiss the missile UV/IR characteristics as false alarms.

The B-SALTS Upgrade allows for the enhancement of the prototype system to add Mil Spec components: IR/UV sources, ruggedized pedestals, IR Cameras, Seeker Head upgrades; increase on the move speed to approximately 75 miles per hour; make the platform Sea State 3 capable with sling/helo transportability and built a similar second system to address the realistic testing requirements of the Missile Warning Systems (MWS).

## **Project's Benefits**

Upgraded B-SALTS will be used to conduct essential OT&E on all next generation MWS to be fielded by coalition aircraft (DIRCM, LAIRCM, Assault DIRCM, Strike DIRCM, ATIRCM).

## **Project's Potential Job Creation & Retention**

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### **ENrG**

**Project Name:** Hydrogen from Renewable Energy  
**Funding Request:** \$1,500,000  
**Address:** Suite 300, 155 Rano St., Buffalo, NY 14207

## **Project's Description**

ENrG is developing a novel fuel cell technology with the initial market being unmanned military aircraft. The military application uses the fuel cell to generate electrical power at night and during the day the fuel cell uses electrical power from solar panels to generate hydrogen. ENrG’s goal is to combine our fuel cell with wind turbines and solar panels to generate hydrogen for commercial and consumer markets, thereby using hydrogen as a convenient, clean energy storage medium. The hydrogen when needed is used to power fuel cell cars, power appliances (stoves, furnace, etc.), or generate electrical power. This will reduce the amount of fossil fuel used in America. The military funding, we are receiving, is only for development of a catalyst for the fuel cell. This funding proposal will provide critical capital equipment and salaries for continued development of other key fuel cell manufacturing processes. This investment will provide significant help in achieving ENrG mission of manufacturing fuel cell components in New York State.

## Project's Benefits

While the Department of Defense is funding the development of a state of the art catalyst for the fuel cell through a Phase 2 SBIR, ENrG is seeking funding for the development of the materials and manufacturing process needed to turn the technology into a commercial product. This funding proposal will provide critical capital equipment and salaries for continued development of other key fuel cell manufacturing processes. This investment will provide significant help in achieving ENrG mission of manufacturing fuel cell components in New York State.

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## FMC

**Project Name:** Destruction of Contaminants in Sediment Matrices

**Funding Request:** \$500,000

**Address:** 35 Sawyer Ave, Tonawanda NY 14150

## Project's Description

This research project will address the safe and effective *in situ* destruction of contaminants such as polychlorinated biphenyls (PCBs) and polyaromatic hydrocarbons (PAHs) in sediment matrices. Current remediation methods incorporate dredging and removal of contaminated sediments for either *ex situ* treatment or land filling. Such processes can lead to further ecological damage by redistributing contamination, consume substantial amounts of energy and lead to unsustainable practices and land use. Other containment methods, such as capping, serve to reduce contaminant transfer to receptors, but likely require long-term maintenance to ensure the containment continues to be effective, and do not result in the ultimate removal of contamination from the environment.

## Project's Benefits

When monitored natural attenuation is not an acceptable remedial alternative, and treatment is required, the expected benefit of the technology is a cost-effective treatment method for contaminated sediments that reduces the risk to the surrounding environment, reduces energy consumption, and provides a sustainable remediation approach. Successful application of this technology will destroy organic contaminants in place without the risk of redistribution that often accompanies technologies such as dredging. In addition, chemical oxidation is a rapid treatment technology, potentially requiring less time in the field, thereby reducing remediation costs and restoring sediment habitat in less time. This technology may be applied to any DoD site with sediments contaminated by organic pollutants, and, if successfully demonstrated, to metals as well. This technology offers a sustainable remediation approach in that the contaminants are destroyed *in situ*, and not merely re-located to a land fill, confined disposal facility or aquatic disposal facility. While contaminated sediments dredged and treated *ex situ* can be beneficially re-used for a variety of purposes, the quantity of contaminated sediments in major rivers, lakes and coastal waterways is extraordinary, and finding ways to re-use all of these sediments is not

feasible. Thus, developing and effectively implementing an *in situ* sediment treatment technology is a necessity in order to reduce the risk to human health and the environment.

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### **General Motors**

**Project Name:** NASA Propulsion Vehicle  
**Funding Request:** \$3,000,000  
**Address:** 10 Carriage St, Honeoye Falls, NY, 14472-1039

#### **Project's Description**

For FY10, it is proposed that NASA initiate a demonstration of (4) Chevrolet Equinox fuel cell electric vehicles in operation at Kennedy Space Center, Florida. The demonstration will include installation of an extended vehicle range hydrogen refueling station at NASA's location at Kennedy Space Center, Florida and related operations facilities enhancements. The Chevrolet Equinox fuel cell electric vehicle deliveries are planned for 4th quarter 2009 with operations through April 2012.

#### **Project's Benefits**

NASA has a fleet of approximately 924 alternative fuel vehicles operating at Kennedy Space Center (KSC) that use over 279,000 gallons of these fuels annually. NASA has worked with fuel cells & hydrogen for the last 40 years in space and believes incorporating hydrogen-powered/fuel cell electric vehicles into their fleet will allow them to apply their aerospace knowledge and influence toward advancing a cleaner solution to our nation's transportation energy needs, while reducing foreign oil dependency. A fuel cell electric vehicle fleet at NASA may provide significant operational advantages, including the opportunity to actively promote the safe utilization of hydrogen fuel in terrestrial vehicles, just as many aerospace vehicles have safely relied upon hydrogen as the fuel of choice. Additionally, these technologies may provide the ability for NASA to conduct grassroots outreach to more than 2 million visitors to KSC each year as well as too many local, state and national outreach programs. Fuel cell vehicles using hydrogen as their fuel illustrate the tie in of these technologies from space to earth and through their use they may better the earth.

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### **General Motors**

**Project Name:** U.S. Air Force Non-Tactical Vehicle  
**Funding Request:** \$3,700,000  
**Address:** 10 Carriage St, Honeoye Falls, NY, 14472-1039

## **Project's Description**

For FY10, it is proposed that the USAF initiate a demonstration of (2) Chevrolet Equinox fuel cell electric vehicles in operation at Dover AFB, Delaware. The demonstration will include installation of an extended vehicle range hydrogen refueling station at Dover AFB, Delaware and related operations facilities enhancements. The Chevrolet Equinox fuel cell electric vehicle deliveries are planned for 4th quarter 2009 with operations through April 2012.

## **Project's Benefits**

Department of Defense - The USAF has a fleet of approximately 60,000 non-tactical vehicles. Presidential executive orders and USAF energy and environmental policy provide for USAF energy and environmental initiatives to reduce petroleum dependence, increase vehicle fuel efficiency and acquire alternative fuel vehicles. A USAF fuel cell electric vehicle non-tactical fleet demonstration will provide the USAF with significant advantages and learning toward these objectives, including the opportunity to operationally evaluate the safe utilization of hydrogen fuel in non-tactical vehicles. Additionally, this program will provide insights into the potential for the use of fuel cell and hydrogen technology in potential tactical applications for vehicular electric propulsion and stationary electric power.

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## **Harris**

**Project Name:** Expeditionary Communications Enhancement  
**Funding Request:** \$2,000,000  
**Address:** 1680 University Avenue, Rochester, NY 14610

## **Project's Description**

Development of an On-The-Move (OTM) and Over-The-Horizon (OTH) Communications capability that leverages the Marine Corps' existing investment in JTRS-approved radio systems and bridges the expeditionary capability gap to the Army's WIN-T program.

Expeditionary Maneuver Warfare (EMW) requires a mobile ad hoc network (MANET) that operates with greater spectrum efficiency and can take advantage of the radio hardware investment the Marine Corps has already made. The requirement to operate with the Army's WIN-T program while maintaining an expeditionary footprint and staying within fiscal constraints means the Marine Corps must maximize the use of the radios it has procured with Supplemental funding. The JTRS-approved capability in the existing radios systems along with systems development to integrate it with the WIN-T Highband Networking Radio will ensure the Marine Corps can operate in a Joint Net-Centric Environment that supports Expeditionary Maneuver Warfare.

This is a one-time equipment request for WIN-X

## **Project's Benefits**

Defense Department. It will help facilitate the WIN-X program at the Marine Corps

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### **iCardiac Technologies**

**Project Name:** Personalized Cardiac Safety System  
**Funding Request:** \$4,000,000  
**Address:** 150 Allens Creek Road, Rochester, NY 14618

## **Project's Description**

While scientific consensus now exists that patients should be screened with ECGs, conventional ECG tests are reliable for detecting only major heart abnormalities. Unfortunately, they are not precise enough for detecting the often subtle changes that manifest an individual's higher risk for drug-induced arrhythmia. Since today's ECG tests are incapable of making these complicated measurements, physicians are left to rely on woefully incomplete information in making prescribing decisions for their patients. There is simply no way for a conventional ECG test to accurately and consistently identify those patients who are at higher risk for life-threatening drug-induced arrhythmias.

Building upon 30 years of research at the University of Rochester Medical Center focused on drug-induced ECG abnormalities, iCardiac Technologies has commercialized advanced technologies for better quantifying ECG signal and helping physicians to assess the individual risk of drug-induced arrhythmias.

This project proposes implementing these advanced and validated technologies into low-cost ECG devices that will be used by VA physicians. At the completion of the project, iCardiac Technologies, in cooperation with Impact Technologies of Rochester, NY, will make available to the VA a "Personalized Cardiac Safety System" consisting of two variations of ECG devices: a version of the ECG device optimized for use inside hospitals and clinics, as well as another version optimized for home monitoring. Both versions of the device will enable trained cardiologists working at the VA – or cardiologists employed at central ECG interpretation laboratories, such as the one operated by iCardiac Technologies that specializes in drug safety – to make much more informed prescription decisions affecting the lives of veterans.

## **Project's Benefits**

This project will save lives and improve the quality of care for veterans and their families. It will also enable VA healthcare providers to be compliant with the practice recommendations from the NEJM and SCAT, and to do so in an effective and cost-efficient manner. For example, VA

physicians will be able to comply with the screening recommendations without additional time commitment to reading ECGs, since ECGs will be processed in a central laboratory.

In addition to saving lives and improving standards of care, this project will also significantly reduce healthcare costs for the VA. According to the American Heart Association, in large-scale ECG screening programs conducted in the U.S. and Europe, ECG screening has been shown to be twice as cost-effective as conducting history and physical examinations.

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### **Integrated Nanotechnologies**

**Project Name:** Automated Portable Field System  
**Funding Request:** \$3,500,000  
**Address:** 999 Lehigh Station Rd, Henrietta, NY 14467

#### **Project's Description**

INT requests funding to complete the engineering development phase of a medical diagnostic device for the Army that can detect diverse existing and emerging diseases, including diseases that are highly infectious and devastating to populations (e.g., malaria, HIV/AIDS, avian flu, and SARS). This funding would bring the product to procurement-ready status.

Like the military-based system, the next generation medical diagnostic system isolates and purifies DNA and RNA from blood, tissue, or from other medical samples. The medical diagnostic system would use lab-on-a-chip technology to electronically detect the presence of bacteria, viruses or other pathogens and can wirelessly transmit the data to a base of operations for near real-time analysis or to a secure geospatial mapping program. Because of innovative technology, system automation, and minimal training and handling requirements, the test would take less than ten (10) minutes to complete. The disposable test cartridge could be encoded with numerous pathogens (up to 100) and could simultaneously test a single sample for all pre-encoded pathogens. The military-based test has an error rate of less than one in one hundred thousand tests and it is expected that the medical diagnostic will have a similar error rate.

The system would weigh less than two pounds and would be battery powered, portable, automated, reliable under widely varying field conditions, of low cost, and easily operated by skilled or unskilled persons. Logistical support requirements would be minimal.

#### **Project's Benefits**

Global outbreaks of SARS and the potential for an avian flu outbreak demonstrate the importance of a rapid detection device that can diagnose symptomatic or asymptomatic persons for exposure. Further, the myriad of medical threats that can impact the United States and its

soldiers warrant a multifaceted device that can simultaneously detect harmful agents in the body—from malaria to HIV/AIDS to hemorrhagic fevers to drug-resistance strains of tuberculosis—within ten minutes. The ability to rapidly identify a disease is critical to containing its spread and to mitigation efforts.

At present, no adequate or reliable method for rapid field detection of multiple disease threats is available. In certain geographic areas or in times of pandemic emergency when there are few doctors and fewer medical resources available, INT's device will serve a valuable purpose. Further, the most common detection methods currently available take considerable time, need extensive lab support, and can give less than clear results (i.e., antibody based methods and polymerase chain reaction (PCR) methods).

Of additional importance, the medical diagnostic device would be cost effective and could be mass produced for deployment to potential hot spots.

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### **L-3 Communications**

**Project Name:** Cockpit Voice Recorder  
**Funding Request:** \$3,500,000  
**Address:** 6000 Fruitville Road, Sarasota, FL 34232-6414

#### **Project's Description**

Project is titled "Army National Guard Cockpit Voice Recorder/Flight Data Recorder CH-47D Modification Program". \$3.5 million in FY '10 funds will be used to procure and install an initial 30 ship sets of the Cockpit Voice Recorder/Flight Data Recorder on-board CH-47D helicopters assigned to New York, Pennsylvania, Maryland, South Carolina, and Florida Army National Guard cargo helicopter units, essentially the East Coast States owning this type aircraft.

Project will allow for immediate assessment of catastrophic aircraft accident causes. Project will reduce operational and support costs by providing an initial Condition Based Maintenance capability identical to that to be installed on Active Army "F" Model Chinooks. Both aspects enhance the use of taxpayers' funds. Aircrew and passenger lives are saved, as well as aircraft, by any changes to aircraft operations proven as necessary from data pulled from recording instrumentation.

Request is for a "one time" project in terms of supporting delegations. While this \$3.5 M request will cover East Coast units, every effort will be made to secure funds for recorder installation on all West Coast aircraft in 2011, but source of support will not be delegations affected by this request

#### **Project's Benefits**

Benefit: Cockpit Voice Recorders/Flight Data Recorders are required on Army National Guard CH-47 “D” Models for the following reasons. Benefit is in correction of these issues.

- Army National Guard CH-47D aircraft are the oldest in the fleet and require the most capable systems available to monitor their Condition Based Maintenance (CBM).
- With aging National Guard aircraft, unscheduled maintenance, i.e., unexpected malfunctions in aircraft systems, becomes a major driver in “Operation and Maintenance” costs.
- With catastrophic aircraft accidents involving older generation aircraft, it becomes far more important to understand causes quickly to stem any tide of similar events.
- Unlike Active Army cargo aircraft, National Guard CH-47s operating throughout the US have multiple missions, often, for example, involving the transportation of large numbers of civilians in disaster relief.
- Logic for adding capability to Active Army CH-47 “F” Model aircraft, fully modernized, is even more compelling for National Guard aircraft.
- At \$30K per unit, the investment is small compared to the impact on the safety of aircrews and aircraft, and on readiness, particularly during sustained combat operations.

Federal responsibility: The US Government has a responsibility to provide the safest configuration of aircraft to be operated in military and civil aviation.

Local, measurable improvement. Project enhances local ARNG aircraft, aircrew and passenger safety. In the event of a catastrophic aircraft accident involving NY ARNG CH-47D Cargo helicopters, the likelihood that the cause of accident will be quickly determined is much higher than currently is the case. This is particularly important with National guard units, as in disaster relief situations, not only are military personnel transported, but also civilians. Data monitoring provided by the Flight Data Recorder will reduce the operational costs of aircraft resulting from the Condition Based maintenance of the aircraft and all its systems provided by the flight data recorders.

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### **Moog**

**Project Name:** Quiet Drive Advanced Rotary Actuator  
**Funding Request:** \$4,000,000  
**Address:** 300 Jamison Rd, East Aurora, NY



## **Project's Description**

The project was originally funded under Line 16, Power Projection Advanced Technology, Navy RDT&E for Advanced Electric Drive. The PE# is 0603114N.

The Navy project is expected to be completed within 3 years for a total project cost of \$6.0 million.

Moog will develop an advanced actuation system, a quiet, compact electro-mechanical device, using a hypocycloidic gear train that would be an enabling technology for the U.S. Navy, Future Naval Capabilities (FNC) These actuators will provide the Navy with a performance improvement and lifecycle cost advantage compared to today's hydraulic rotary actuator in its efforts to develop the all-electric ship and submarines. These systems will automate many systems, thus keeping sailors out of harms way. The immediate naval application will be used on submarines (such as bow planes and other structures employing actuator technology). Actuators convert energy from hydraulic, air, or electric power to achieve mechanical movement and control of heavy or remote devices. Current Navy ships have between 100 to 3,000 actuators each. At present, these actuators typically use old style hydraulic technology. Successful completion of the technology will reduce shipboard personnel and reduce repair and maintenance costs. The Department of the Navy has repeatedly stated its desire for an all-electric ship. Environmental hazards associated with hydraulic systems will also be eliminated by moving to an electric actuator. Under prior funding, there has been constructed an electric motor which is currently being evaluated. The present design does not meet the strict acoustic requirements of the US Navy. The company, using internal funding, will analyze the prototype, correcting these and other technical issues. Computer models are now being constructed to aid in the analysis and physical models will be built to verify the analytical conclusions. Alternate design concepts will be developed and analyzed with the best proposed as the system solution.

## **Project's Benefits**

Moog will develop an advanced actuation system, a quiet, compact electro-mechanical device, using a hypocycloidic gear train that would be an enabling technology for the U.S. Navy, Future Naval Capabilities (FNC)

These actuators will provide the Navy with a performance improvement and lifecycle cost advantage compared to today's hydraulic rotary actuator in its efforts to develop the all-electric ship and submarines. These systems will automate many systems, thus keeping sailors out of harms way. The military service need is well documented. In the 2007 Symposium conducted by American Society Naval Engineers/Department of Defense, the Office of Naval Research conducted a panel presentation on the need for the quiet drive technology as applied to "Diagnostics and Maintenance" in the all electric ship. Over the past 5 years, ONR has repeatedly stated that these actuators would provide the Navy with a performance improvement and lifecycle cost advantage compared to today's hydraulic rotary actuator in its efforts to develop the all-electric ship. Army's TARDEC also supports the work because the results will be able to be used for Advanced Electric Drives configurable to axle and wheel-end applications providing greater drive capabilities and high intelligence capabilities (current immediate use

includes HUMVEEs and trucks). Existing military axle and wheel-end systems fail to provide adequate measurement and data retrieval that are needed to increase engine efficiency and torque while preventing breakdown or catastrophic event.

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### **Praxair**

**Project Name:** Cleanup of Former Linde Air Products  
**Funding Request:** \$10,000,000  
**Address:** 175 East Park Drive Tonawanda, NY 14151

#### **Project's Description**

Funds will be used for the ongoing cleanup of the former Linde Air Products facility in Tonawanda, NY. As of December 2008, 335,000 tons of contaminated material has been excavated, transported and disposed at licensed facilities outside of New York State at a cost of over \$211 million. Projected additional costs required to complete the project are \$48 million. It is critical to the economic viability of Western New York that the estimated 51,000 remaining tons of contaminated materials be excavated. Provided that adequate funding is provided, we expect cleanup to be completed in May 2010.

Funds will be used for the ongoing cleanup of the former Linde Air Products facility in Tonawanda, NY.

#### **Project's Benefits**

Under Government Direction, the Linde Air Products facility in Tonawanda, NY processed uranium ore during the Manhattan Project. As a result, low-level radioactive materials and mixed wastes remain on the property. Since 1998, the US Army Corps of Engineers has been engaged in remediation at Tonawanda. Tonawanda served a vital role in our nation's early atomic energy program and it is a federal responsibility to ensure that the complete remediation of the site is realized.

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### **Praxair**

**Project Name:** Language Request  
**Funding Request:** NA  
**Address:** 175 East Park Drive Tonawanda, NY 14151

## Report Language Request

“The US Army Corps of Engineers is directed to prioritize sites that are nearing completion”

### Project’s Benefits

Under Government Direction, the Linde Air Products facility in Tonawanda, NY processed uranium ore during the Manhattan Project. As a result, low-level radioactive materials and mixed wastes remain on the property. Since 1998, the US Army Corps of Engineers has been engaged in remediation at Tonawanda. Tonawanda served a vital role in our nation's early atomic energy program and it is a federal responsibility to ensure that the complete remediation of the site is realized.

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### Saint-Gobain Ceramics

**Project Name:** Ceramic Armor  
**Funding Request:** \$3,000,000  
**Address:** 22 Acheson Drive, Niagara Falls, NY 14303

### Project’s Description

Ceramic armor is increasingly recognized as the critical component in protecting the soldier. The soldier’s equipment, whether worn by the soldier or integrated on a vehicle or an aircraft, must be both robust and lightweight. Homogenous armor systems, such as steel or composites, are either too heavy or provide inadequate protection.

The US military has concluded that new armor systems are urgently required, in particular ceramic as a key component. The ceramic must engage the armor piercing threat head on, blunting the penetrating nose or breaking up the projectile altogether. Likewise, ceramics will enable the US military to achieve its goals for a lighter force with the same lethality.

The overall objective of the proposed program for “Next Generation Sintered Silicon Carbide for Integrated Lightweight Armor” is to develop new and improved ceramic armor to withstand the increasingly deadly threats targeted at US troops. The best ways to meet this objective is to further expand production capacity of alpha grade SiC powder in line with DOD demand and to create or expand production capability for SiC ceramic armor components.

While Saint-Gobain has invested extensively (\$9 million) in some of the key equipment and resources needed for improved SiC armor materials, much more needs to be done. Some areas to target:

- Improved SiC Powders; New or improved SiC materials (especially hardness and toughness)
- Improved forming processes; Improved high-temperature sintering processes

### **Project's Benefits**

The funding will assist in the advancement of personal protection ceramic armor for soldiers, vehicles and aircraft alike. Through advancements in ceramic armor, the US Army will be able to achieve its stated goals of 1. being able to deploy an armored brigade anywhere in the world within 96 hours (Future Combat Systems) and 2. reducing the load of the combat soldier (Objective Weight XSAPI).

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### **Seamless Communications Group**

**Project Name:** Airport Network Equipment  
**Funding Request:** \$441,855  
**Address:** 700 Maple Drive Webster NY 14580

### **Project's Description**

Pilot project installation of patented software application into three airports in Western & Central NY. Provide enhanced response and command & control capabilities using existing telecommunications and security network infrastructure.

### **Project's Benefits**

Comprehensive compliance with DHS and FEMA directives. Public Law 110–53 Titles III.301, IV.404, V.504, IX.901, XII.1202, XIV.1409, XV.1513-1514-1526, XVI.1608-1617, XXII.2201, XXIV.2404 DHS, Campus Safety Act 2009. SEC 3201-b-3, 4, 6, 7, 8

Greatly enhanced Emergency Preparedness and Response. Improves functionality and connectivity for purposes of Command and Control. Facilitates immediate First Alert mechanism. Physical Control and Notification capabilities at the touch of a button on a hand held phone. Provides Interoperability and Convergence of resources and assets. Provides cost savings and improved efficiency in response, command and control. Greatly enhanced and effective Municipal Emergency Preparedness and Response capability.

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### **Seamless Communications Group**

**Project Name:** Start up Funds  
**Funding Request:** \$5,164,201  
**Address:** 700 Maple Drive Webster NY 14580

## **Project's Description**

Start up funds required for first two years of operation. Funding requested to cover all anticipated expenses to get business off the ground. SCG will provide enhanced response and command & control capabilities using existing telecommunications and security network infrastructure allowing compliance with DHS and FEMA directives.

## **Project's Benefits**

Comprehensive compliance with DHS and FEMA directives. Public Law 110–53 Titles III.301, IV.404, V.504, IX.901, XII.1202, XIV.1409, XV.1513-1514-1526, XVI.1608-1617, XXII.2201, XXIV.2404 DHS, Campus Safety Act 2009. SEC 3201-b-3, 4, 6, 7, 8

Greatly enhanced Emergency Preparedness and Response. Improves functionality and connectivity for purposes of Command and Control. Facilitates immediate First Alert mechanism. Physical Control and Notification capabilities at the touch of a button on a hand held phone. Provides Interoperability and Convergence of resources and assets. Provides cost savings and improved efficiency in response, command and control.

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## **Unity Health System**

**Project Name:** Advanced Clinical System/CPOE Initiative  
**Funding Request:** \$2,000,000  
**Address:** 89 Genesee Street, Rochester, NY 14611

## **Project's Description**

Unity Health System has taken a leadership role in advancing its clinical information technology capabilities, specifically through the use of electronic medical records, and is in the midst of a five-year, \$15 million project to install a state-of-the-art computerized provider order entry (CPOE) system in its 18 primary care and Ob-Gyn offices. To date, we have experienced significant cost-savings and enhancements in patient safety, quality of care, and patient satisfaction. However, the current recession and Governor Paterson's proposed funding reductions have forced us to slash our information technology budget and delay key portions of our information technology plan in 2009.

Specifically, we are delaying the scheduled installation of the Electronic Medical Record (EMR) system at our six Ob-Gyn practices, which will serve 28,000 patients in 61,000 office visits. The installation costs encompass hardware, wireless networking, computers, and software licensing, as well as provider and staffing adjustments during installation and training. Additionally, we have had to delay the EMR implementation at our new Maternal & Fetal Medicine practice which will provide critical peri-natal consultations and expertise to 1300 pregnant women. Within Unity Hospital, we are delaying implementation of the Nursing Clinical Documentation system due to the lack of funds for hardware.

## Project's Benefits

Unity Health System's initiative will enhance both the quality and the delivery of care within our hospital. These clinical systems will better serve our patient population by offering an integrated care approach throughout the continuum of care. Clinicians will have instant access to patient information in a more structured format as well as access to decision support software through a Computerized Provider Order Entry. The CPOE will also improve efficiency and quality of nursing documentation and prevent medical errors. Simply put, these clinical applications will reduce error, improve workflow, and make important medical information readily available.

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## Virtual Scopics

**Project Name:** Workflow Engine for Image Exploitation  
**Funding Request:** \$2,000,000  
**Address:** 500 Linden Oaks, Rochester, NY 14625

## Project's Description

**Problem:** Intelligence, Surveillance and Reconnaissance (ISR) images are collected using multiple sensors within an airplane. These are connected to an onboard computer where an airman can import the images from the sensors and then analyze the images to locate targets. There are many processing steps involved in the analysis including calibration, orthorectification, registration, illumination suppression, change detection, etc. As more and more sensors are added to the onboard system, and more processing steps are added to the analysis, it becomes increasingly difficult for an airman to perform these tasks. Even in ground environments where the data is analyzed offline, it is difficult to manage and perform all the image processing that is required to extract target locations.

**Solution:** A flexible, distributed, database-driven workflow engine for processing ISR data will be developed. The workflow engine architecture to be developed will be transitioned into a multi-user, multi-site exploitation processing capability like the Distributed Common Ground System (DCGS).

## Project's Benefits

This project will simplify the job of the airman analyzing real-time data in a high-stress environment. In addition, it will enable the efficient analysis of imagery that now goes unanalyzed. The third benefit will be the ability to easily upgrade the workflows in the field to utilize the latest technology developed in the lab.

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**Vuzix**

**Project Name:** Augmented Reality System  
**Funding Request:** \$2,900,000  
**Address:** 75 Town Center, Rochester, New York 14623

### **Project's Description**

The most demanding battlefield of today and the future is the urban environment. These complex, 3D settings introduce many challenges to the dismounted warfighter where maximum situational awareness is required for effective operation. Narrow streets restrict line of sight and make it difficult to plan and coordinate unit action. Threats, such as snipers, are fluid and the structure of the environment itself can change – a damaged building can fill a street with rubble, making a once-safe route impassable; friendly control areas can change overnight. Such difficulties are compounded by the need to minimize civilian casualties and collateral damage. The greatest challenge in such a dynamic environment is delivering this information to the dismounted warfighter – computer screens draw a user's attention away from the environment; digital maps cannot directly represent the three dimensional nature of the terrain.

To overcome these difficulties, Vuzix is designing an Augmented Reality System. The system consists of a wearable computer; a wireless network system; and a tracked, see-through head-mounted display (HMD). The computer generates graphics that, from the user's perspective, appear to be aligned with the actual environment. For example, a building could be augmented to show its name, a plan of its interior, icons to represent reported sniper locations, and the names of adjacent streets.

For these systems to become a practical tool for the war fighter and schoolhouse, Augmented Reality HMDs must be made that are inexpensive; battery-operated; untethered; and must provide a bright, color display in a wide, unobstructed field of view.

### **Project's Benefits**

Systems currently exist, based on arcane technology, that make them impractical either for the warfighter or training due to size, weight and cost (in excess of \$75,000 each). The Vuzix system would help ensure better combat situational awareness for our troops preventing friendly fire situations, civilian casualties, and vulnerability to sniper and improvised explosive devices. This technology will also allow for faster, portable, less expensive, and safer training for our troops.

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### **Department of Education**

**Project Name:** Arts in Education  
**Funding Request:** \$53,000,000  
**Address:** 400 Maryland Ave, SW, Washington, DC 20202

## **Project Description**

This use of taxpayer funding is necessary to continue to improve the education and lives of our nation's children. Studies continually show a significant link between arts education and students' academic performance, as well as their social development, motivations, attitudes, and disposition toward learning. A 2006 study by the Arts Education Partnership, *Third Space: When Learning Matters*, finds that schools with large populations of students in economic poverty—often places of frustration and failure for students and teachers alike—can be transformed into vibrant and successful centers of learning and community life when the arts are infused into their culture and curriculum. Additionally, the New Commission on the Skills of the American Workforce has concluded that the arts are an essential skill for fostering the type of innovative thinker that will thrive in the future workforce.

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### **Reach Out and Read National Center**

**Project Name:** Reach Out and Read  
**Funding Request:** \$10,000,000  
**Address:** 56 Roland Street, SW, Boston, MA 02129

## **Project Description**

Reach Out and Read is a national program that promotes literacy and language development in infants and young children, targeting disadvantage and poor children and families. Through fifteen years of peer-reviewed and published research, an extensive body of documentation now clearly demonstrates the importance of promoting early language and literacy skills so that children have the essential reading skills to begin school successfully. Yet today, a large number of children do not receive the necessary support and assistance to develop these skills and begin kindergarten read to learn.

To close this gap, the federal government provides funding for a variety of literacy programs and strategies that reach children and parents, and the professionals who interact with them. ROR has proven to be among the most effective strategies to promote early language and literacy development and school readiness: pediatricians and other healthcare providers guide and encourage parents to read aloud to their children from their earliest years of their life, and send them home from each doctor visit with books and a prescription to read together.

Currently, nearly 50,000 doctors and nurses have been trained in ROR's proven strategies, and more than 3,500 clinics and hospitals nationwide are implementing the program, reaching more than 25% of America's at-risk-children. Funding provided by Congress through the U.S. Department of Education has been matched by tens of millions of dollars from the private sector and state governments.